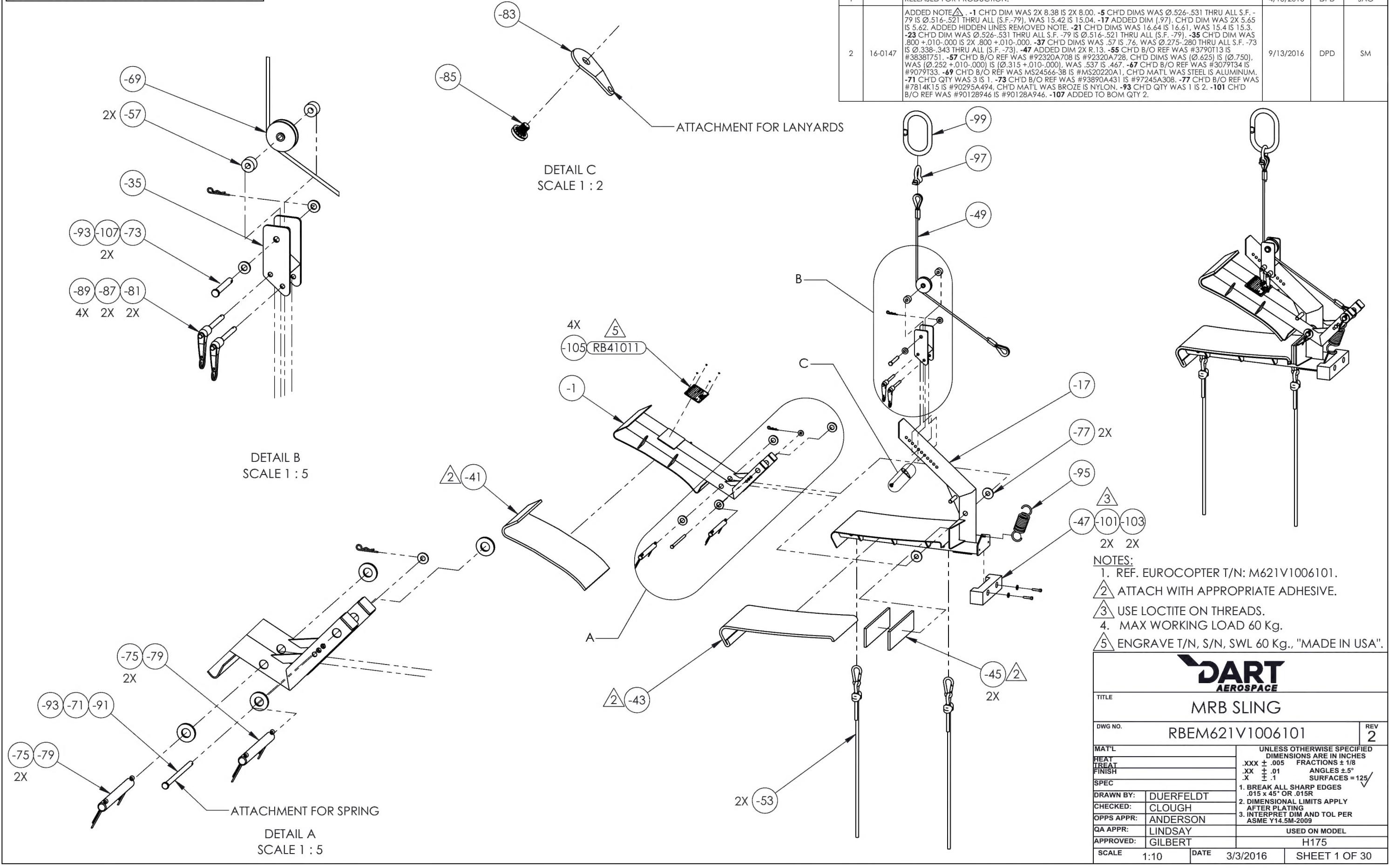
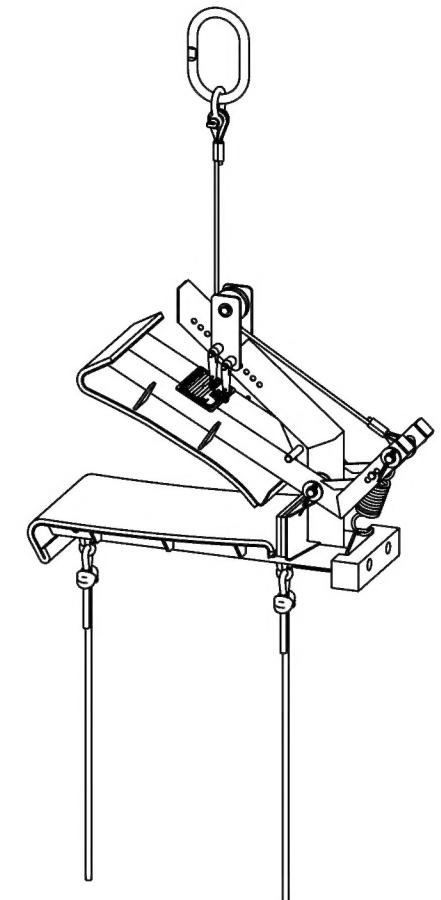


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REV			REVISIONS		
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		RELEASED FOR PRODUCTION.	4/13/2016	DPD	JAG
2	16-0147	ADDED NOTE $\triangle$ -1 CH'D DIM WAS 2X 8.38 IS 2X 8.00. -5 CH'D DIMS WAS $\varnothing$ 526-.531 THRU ALL S.F. -79 IS $\varnothing$ 516-.521 THRU ALL (S.F.-79). WAS 15.42 IS 15.04. -17 ADDED DIM (.97). CH'D DIM WAS 2X 5.65 IS 5.62. ADDED HIDDEN LINES REMOVED NOTE. -21 CH'D DIMS WAS 16.64 IS 16.61. WAS 15.4 IS 15.3. -23 CH'D DIM WAS $\varnothing$ 526-.531 THRU ALL S.F. -79 IS $\varnothing$ 516-.521 THRU ALL (S.F.-79). -35 CH'D DIM WAS .800 +.010-.000 IS 2X .800 +.010-.000. -37 CH'D DIMS WAS .57 IS .76. WAS $\varnothing$ .275-.280 THRU ALL S.F. -73 IS $\varnothing$ .338-.343 THRU ALL (S.F.-73). -47 ADDED DIM 2X R.13. -55 CH'D B/O REF WAS #379013 IS #38381751. -57 CH'D B/O REF WAS #92320A708 IS #92320A728. CH'D DIMS WAS (.625) IS (.750). WAS (.252 +.010-.000) IS (.315 +.010-.000). WAS .537 IS .467. -67 CH'D B/O REF WAS #3079734 IS #9079733. -69 CH'D B/O REF WAS MS24566-3B IS #MS20220A1. CH'D MTL WAS STEEL IS ALUMINUM. -71 CH'D QTY WAS 3 IS 1. -73 CH'D B/O REF WAS #93890A431 IS #97245A308. -77 CH'D B/O REF WAS #7814K15 IS #90295A494. CH'D MTL WAS BROZE IN NYLON. -93 CH'D QTY WAS 1 IS 2. -101 CH'D B/O REF WAS #90128946 IS #90128A946. -107 ADDED TO BOM QTY 2.	9/13/2016	DPD	SM



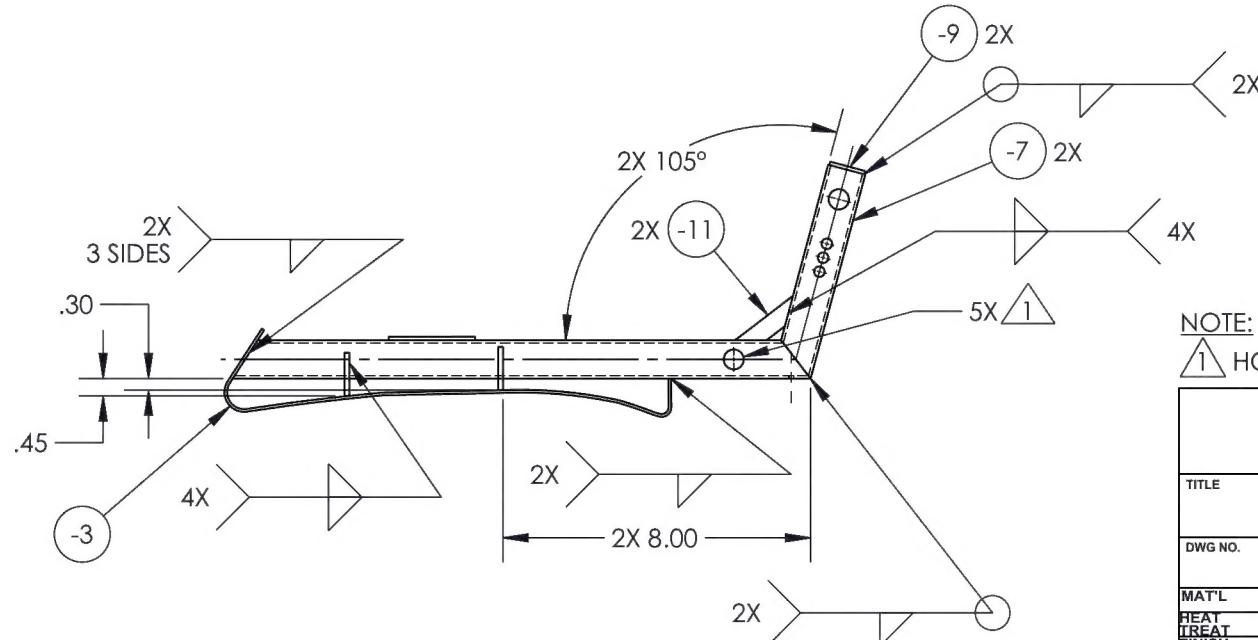
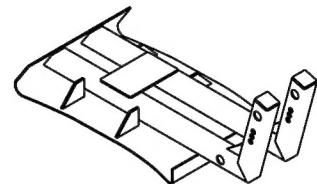
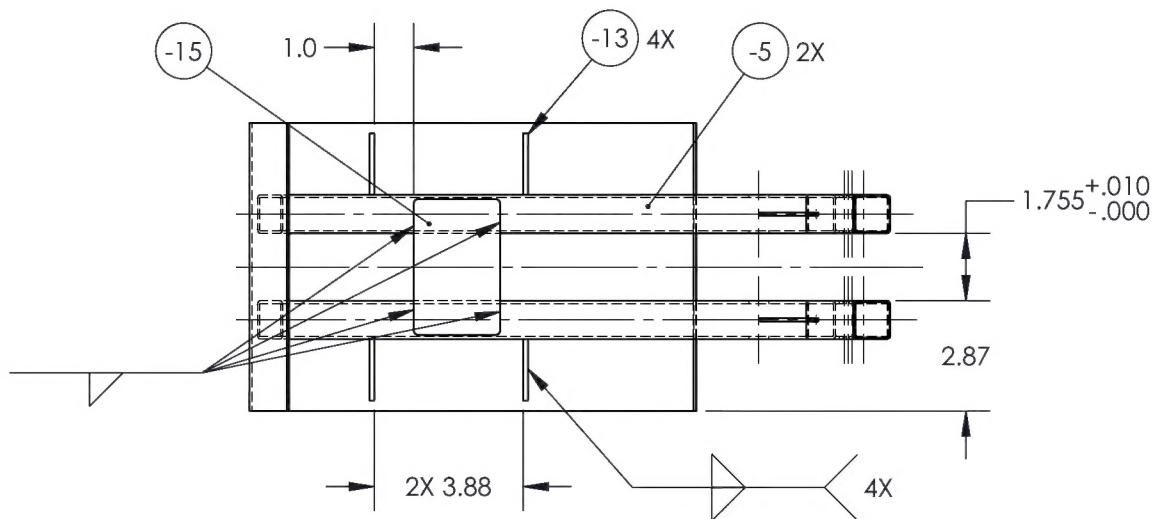
ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.					
				X		-1	1	TOP WELDMENT			3	
				1		-3		TOP CLAMP	A36/1018/1020 HR		4	
				2		-5		TOP LONG TUBE	STEEL TUBE		5	
				2		-7		TOP SHORT TUBE	STEEL TUBE		6	
				2		-9		TUBE CAP	A36/1018/1020 HR		7	
				2		-11		TOP TUBE TO TUBE BRACE	A36/1018/1020 HR		8	
				6	4	-13		CLAMP TO TUBE BRACE	A36/1018/1020 HR		9	
				1	1	-15		RECTANGLE TUBE BRACE	A36/1018/1020 HR		10	
				X		-17	1	BOTTOM WELDMENT			11	
				1		-19		BOTTOM CLAMP	A36/1018/1020 HR		12	
				2		-21		BOTTOM TUBE	STEEL TUBE		13	
				1		-23		BOTTOM UPRIGHT TUBE	STEEL TUBE		14	
				1		-25		BOTTOM ANGLE TUBE	STEEL TUBE		15	
				1		-27		BOTTOM SPRING ANCHOR PLATE	A36/1018/1020 HR		16	
				1		-29		STOP GUSSET	A36/1018/1020 HR		17	
				1		-31		BOTTOM UPRIGHT SUPPORT	A36/1018/1020 HR		18	
				1		-33		LARGE TUBE CAP	A36/1018/1020 HR		19	
				X		-35	1	LIFTING BLOCK WELDMENT			20	
				2		-37		LIFTING BLOCK PLATE	1018/1020 CR		21	
				1		-39		LIFTING BLOCK SPACER	1018/1020 CR		22	
						-41	1	TOP CLAMP PAD	NEOPRENE/EPDM/SBR FOAM	1/4 X 42 WIDE, SOFT (MCMASTER-CARR #8647K33) MODIFIED	23	
						-43	1	BOTTOM CLAMP PAD	NEOPRENE/EPDM/SBR FOAM	1/4 X 42 WIDE, SOFT (MCMASTER-CARR #8647K33) MODIFIED	24	
						-45	2	BACK FOAM PAD	NEOPRENE/EPDM/SBR FOAM	1/4 X 42 WIDE, SOFT (MCMASTER-CARR #8647K33) MODIFIED	25	
						-47	1	REAR BUMPER	URETHANE, 60A	(MCMASTER-CARR #8644K24) MODIFIED	26	
				X		-49	1	LIFTING CABLE ASSEMBLY			27	
				1		-51		LIFTING CABLE	STEEL	Ø3/16, 6 X 19, 760 LBS CAPACITY (MCMASTER-CARR #3440T55) MODIFIED	27	
				X		-53	2	ROPE & CARABINER ASSEMBLY			28	
				1		-55		ROPE	ARAMID	Ø5/16 (MCMASTER-CARR #3838T751) MODIFIED	28	
						-57	2	SPACER	S.S.	Ø5/16 I.D. X Ø3/4 O.D. X 5/8 (MCMASTER CARR #92320A728) MODIFIED	29	
					1	B/O	-59	DOWEL PIN	STEEL	Ø3/8 X 3-1/2 (MCMASTER-CARR #98381A638)	11	
					2	B/O	-61	DOWEL PIN	STEEL	Ø5/16 X 3-1/2 (MCMASTER-CARR #98381A598)	11	
					2	B/O	-63	LIFTING THIMBLE	STEEL	11/16 X 1-5/16, Ø3/16 CABLE (MCMASTER-CARR #3494T12)	27	
					2	B/O	-65	LIFTING OVAL SLEEVE	S.S.	Ø3/16 ROPE X 1 (MCMASTER-CARR #3755T17)	27	
					1	B/O	-67	CARABINER	STEEL	Ø5/16 THICK X Ø1/2 X 2-1/2, 3/8 OPENING (MCMASTER-CARR #3079T33)	28	
						B/O	-69	1	PULLEY	ALUMINUM	Ø1.755 O.D. X Ø1.255 GROOVE, Ø3/16 CABLE (MS20220A1)	1
						B/O	-71	1	WASHER	S.S.	Ø1/4 (MCMASTER-CARR #92141A029)	1
						B/O	-73	1	CLEVIS PIN	STEEL	Ø5/16 X 2 USABLE (MCMASTER-CARR #97245A308)	1
						B/O	-75	4	WASHER	STEEL	Ø1/2 (MCMASTER-CARR #98023A033)	1
						B/O	-77	2	THRUST BEARING	NYLON	Ø1/2 I.D. X Ø1.25 O.D. X .093-.107 (MCMASTER-CARR #90295A494)	1
						B/O	-79	2	HEADLESS CLEVIS PIN	STEEL	Ø1/2 X 4 USABLE (MCMASTER-CARR #93890A499)	1
						B/O	-81	2	L HANDLE BALL LOCK PIN	S.S.	Ø1/4 X 2 USABLE (MCMASTER-CARR #90302A114)	1
						B/O	-83	1	LANYARD TAB	ALUMINUM	#10 (CARR-LANE #CL-194-TAB-A)	1
						B/O	-85	1	PAN HEAD MACHINE SCREW	STEEL	10-32 X 1/4 (MCMASTER-CARR #90403A823)	1
						B/O	-87	2	LANYARD	COATED STEEL	Ø1/16 X 12 (CARR LANE #CL-2-C)	1
						B/O	-89	4	FERRULE	ALUMINUM	Ø1/16 X 3/8 (MCMASTER-CARR #3896T31)	1
						B/O	-91	1	CLEVIS PIN	S.S.	Ø1/4 X 3-13/16 USABLE (MCMASTER-CARR #92390A184)	1
						B/O	-93	2	HAIR PIN	S.S.	Ø1/4 - Ø1/2 PIN, Ø1/16 WIRE (MCMASTER-CARR #92391A120)	1
						B/O	-95	1	EXTENSION SPRING	S.S.	Ø.148 WIRE X Ø1.25 O.D. X 4, 37 LBS/IN (CENTURY SPRING #81130S)	1
						B/O	-97	1	SHACKLE	STEEL	Ø5/16, 1500 WLL (MCMASTER-CARR #3558T46)	1
						B/O	-99	1	OBLONG RING	S.S.	Ø1/2 X 2-3/8 X 4-1/4 (MCMASTER-CARR #30765T85)	1
						B/O	-101	2	SOCKET HEAD CAP SCREW	STEEL	#10-32 X 7/8 (MCMASTER-CARR #90128A946)	1
						B/O	-103	2	WASHER	STEEL	#10 (MCMASTER-CARR #98023A114)	1
						B/O	-105	4	#2 DRIVE SCREW	COATED STEEL	#2 X 1/8 (MCMASTER-CARR #90081A074)	1
						B/O	-107	2	WASHER	STEEL	Ø5/16 (MCMASTER-CARR #98023A030)	1
						B/O		1	DART PLACARD	ALUMINUM	RB41011	1
ASSY -53	ASSY -49	ASSY -35	ASSY -17	ASSY -1								



TITLE		REV	
MRB SLING		2	
DWG NO.		RBEM621V1006101	
MATERIAL		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.000 + .005 FRACTIONS ± 1/8	
FINISH		.000 + .01 ANGLES ± 5°	
SPEC		.000 + .1 SURFACES = 125	
DRAWN BY:		DUERFELDT	
CHECKED:		CLOUGH	
OPPS APPR:		ANDERSON	
QA APPR:		LINDSAY	
APPROVED:		GILBERT	
SCALE		1:10	DATE 3/3/2016
SCALE		USED ON MODEL	
SCALE		H175	
SCALE		ASME Y14.5M-2009	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2			16-0147			-1 CH'D DIM WAS 2X 8.38 IS 2X 8.00.			9/13/2016			DPD			JAG		



NOTE:  
⚠ HOLES MUST ALIGN.



MRB SLING

DWG NO. RBEM621V1006101-1

REV 2

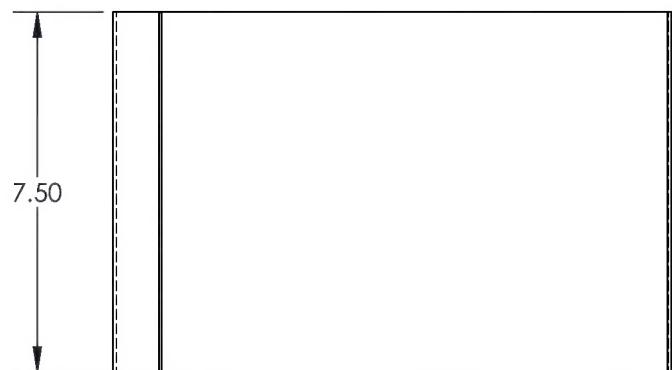
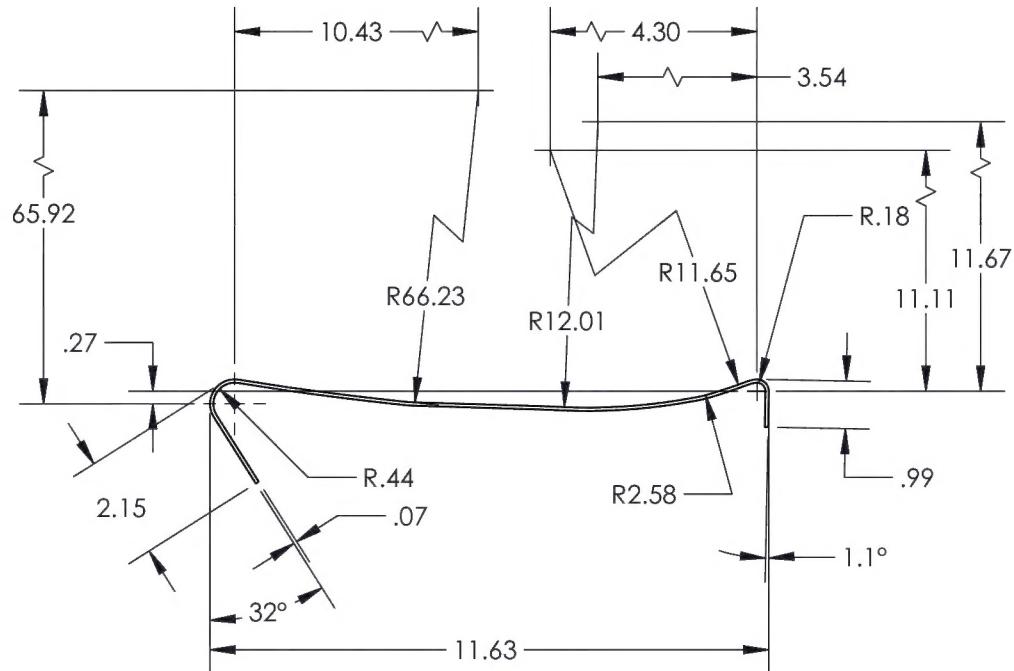
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX	± .010 FRACTIONS ± 1/8
TREAT	.XX	± .03 ANGLES ± 1°
FINISH	X	± .1 SURFACES = 125 ✓
SPEC	FED #13538	
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	H175
SCALE	1:5	DATE 3/3/2016
		SHEET 3 OF 30

(-1)

TOP WELDMENT

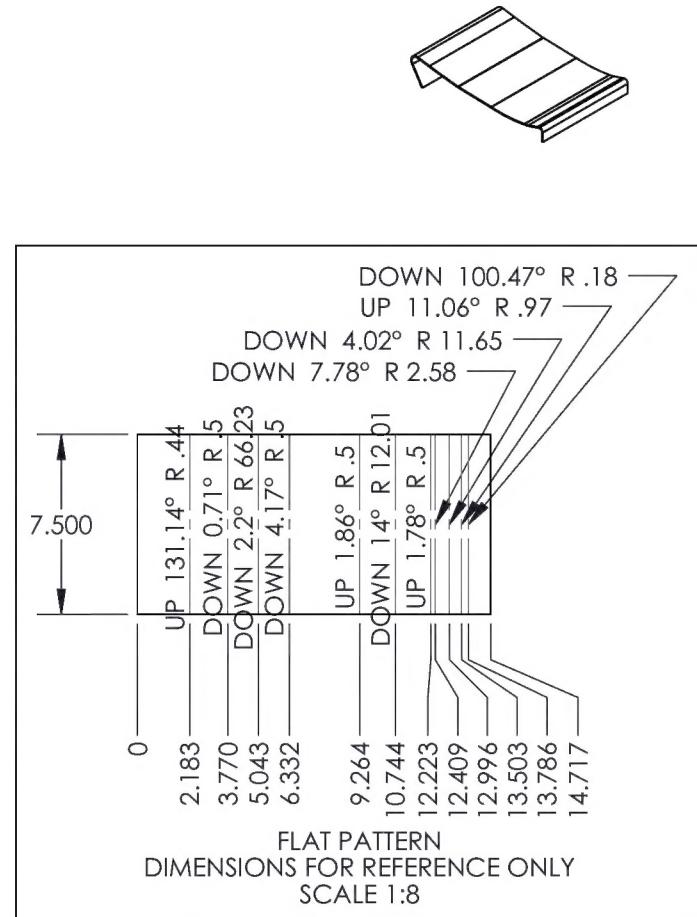
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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL



(3)

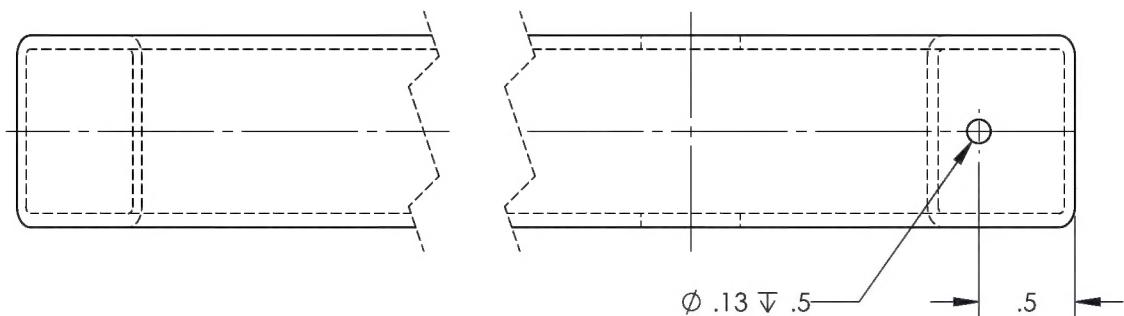
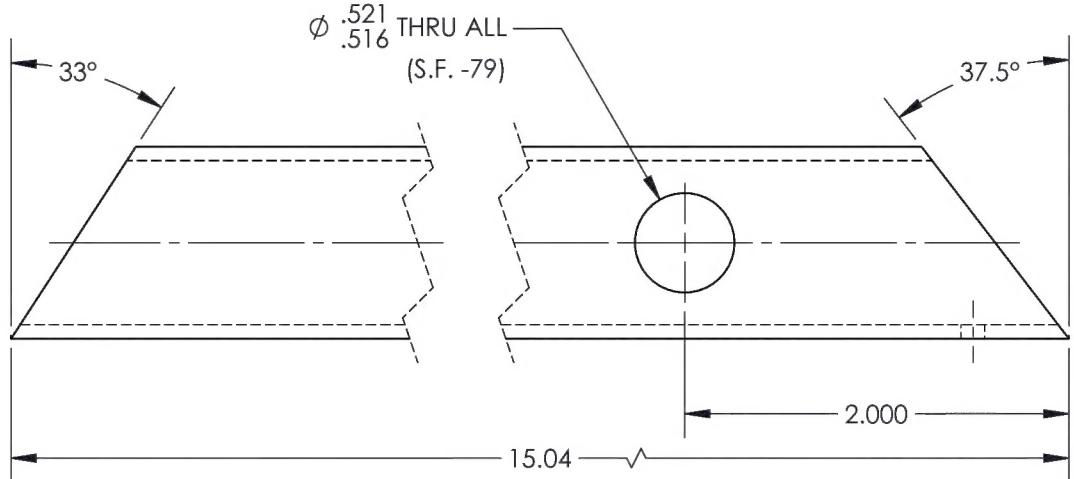
TOP CLAMP



<b>DART</b> AEROSPACE	
TITLE	
MRB SLING	
DWG NO.	RBEM621V1006101-3
REV	2
MAT'L	A36/1018/1020 HR
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SEE -1	.XX ± .03 ANGLES ± 1°
SPEC	X ± .1 SURFACES = 125 ✓
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:4
DATE	3/3/2016
SHEET	4 OF 30

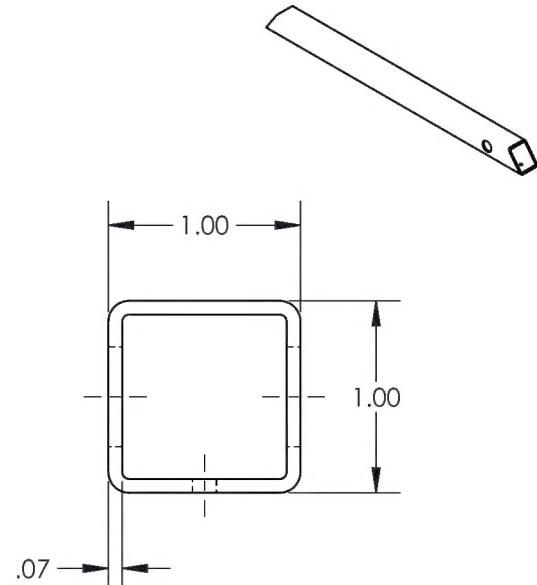
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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0147	-5 CH'D DIMS WAS Ø.526-.531 THRU ALL S.F. -79 IS Ø.516-.521 THRU ALL (S.F.-79), WAS 15.42 IS 15.04.	9/13/2016	DPD	SM



(5)

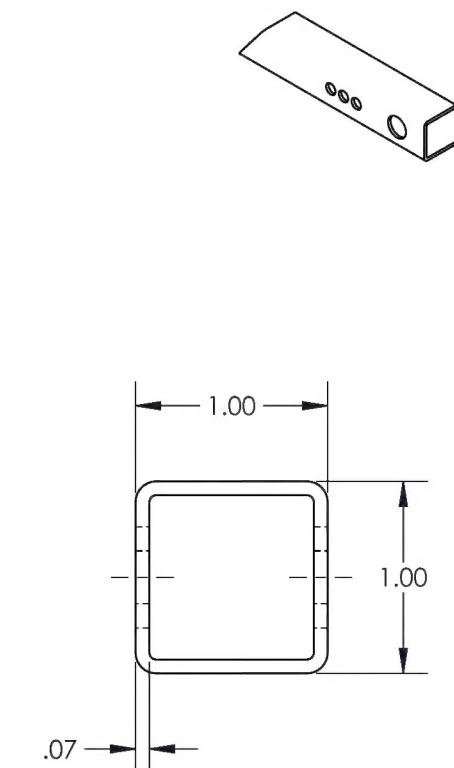
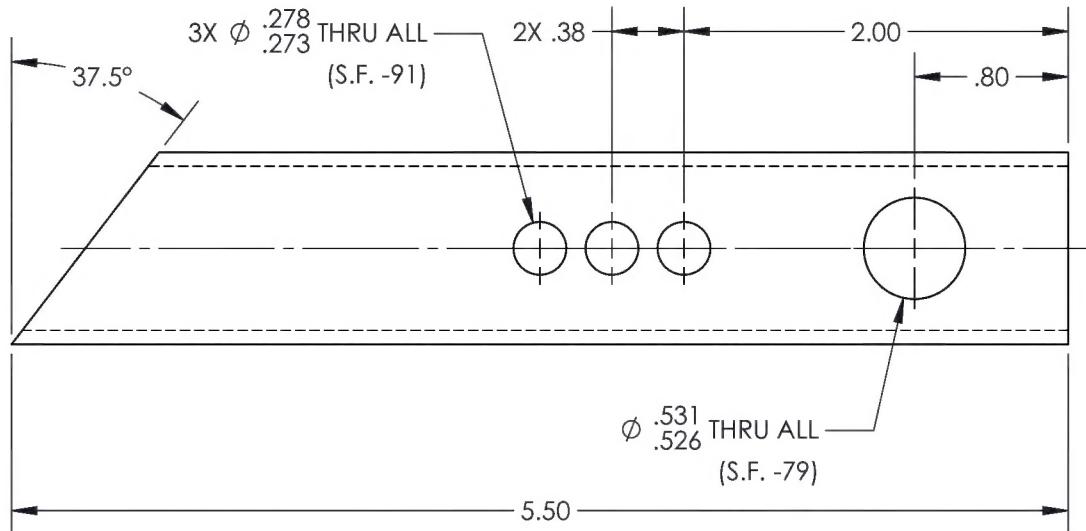
TOP LONG TUBE



DART AEROSPACE	
TITLE	
MRB SLING	
DWG NO. RBEM621V1006101-5	
REV 2	
MATERIAL STEEL TUBE	
HEAT	
TREAT	
FINISH SEE -1	
SPEC	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
H175	
SCALE	1:1
DATE	3/3/2016
SHEET 5 OF 30	

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL
		APPROVED		



TOP SHORT TUBE

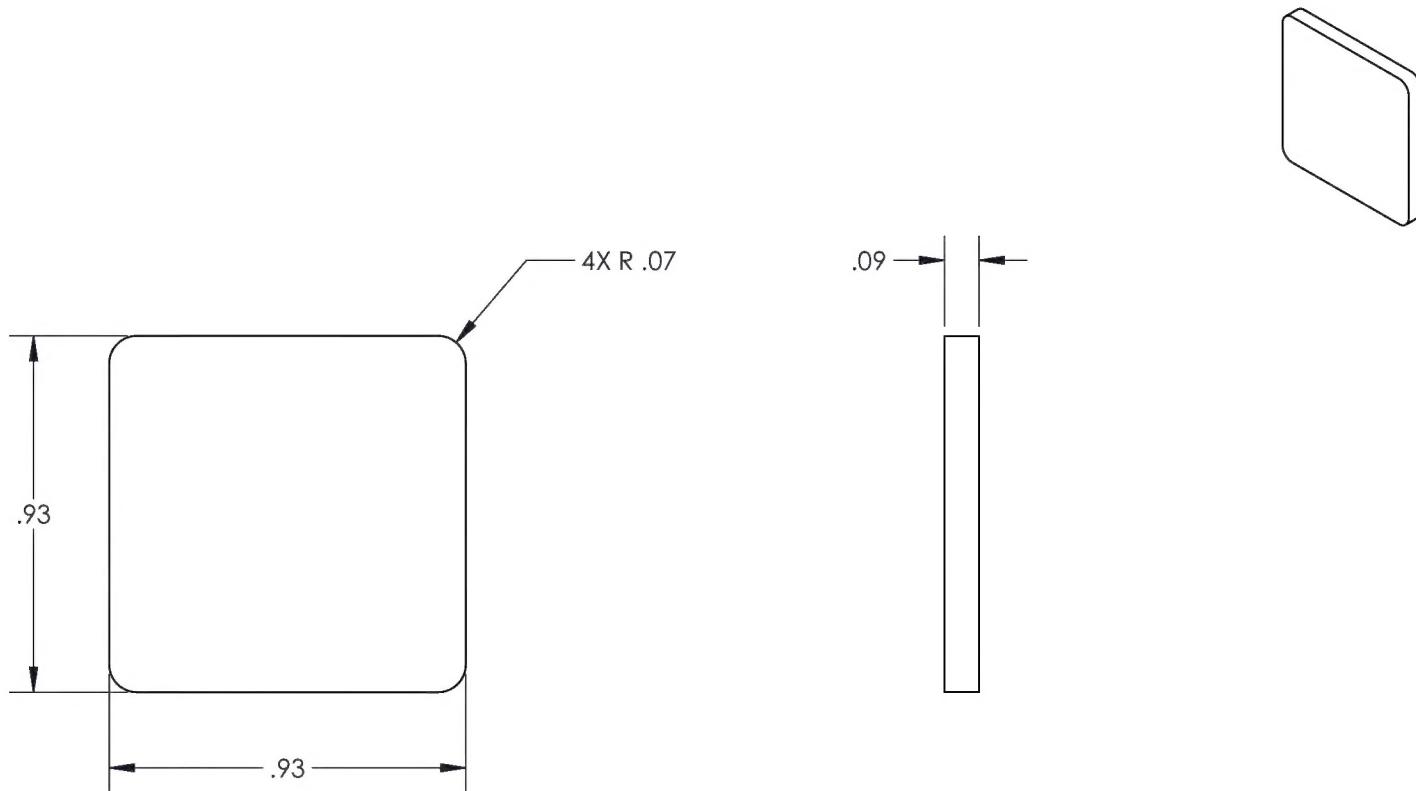
(-7)

	
TITLE	
MAT'L	STEEL TUBE
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -1	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
SCALE	1:1
DATE	3/3/2016
SHEET 6 OF 30	

2

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REV		ECR		REVISIONS		
				DESCRIPTION		DATE
				INITIAL	APPROVED	



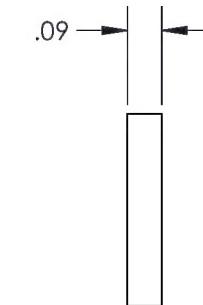
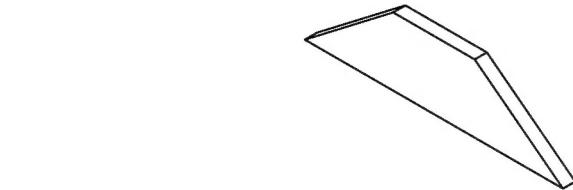
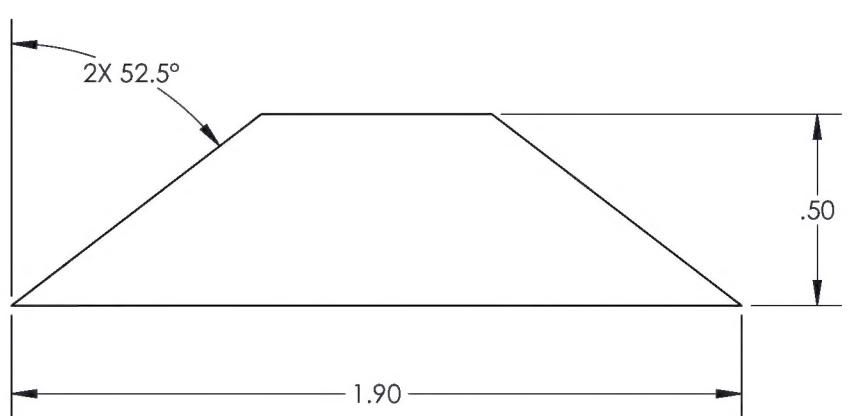
TUBE CAP

(-9)

TITLE		DART AEROSPACE	
MRB SLING			
DWG NO.		RBEM621V1006101-9	
REV		2	
MATERIAL		A36/1018/1020 HR	
HEAT		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE -1		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY:		.X ± .1 SURFACES = 125 ✓	
CHECKED:		1. BREAK ALL SHARP EDGES	
OPPS APPR:		.015 x 45° OR .015R	
QA APPR:		2. DIMENSIONAL LIMITS APPLY	
APPROVED:		AFTER PLATING	
		3. INTERPRET DIM AND TOL PER	
		ASME Y14.5M-2009	
SCALE		2:1	USED ON MODEL
DATE		3/3/2016	SHEET 7 OF 30

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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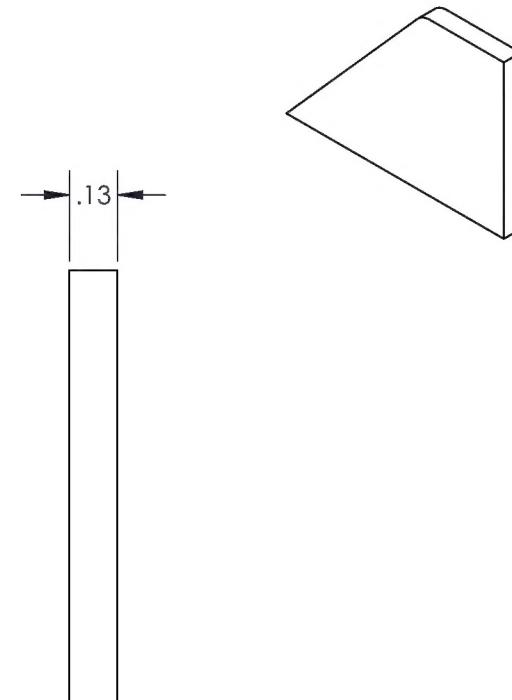
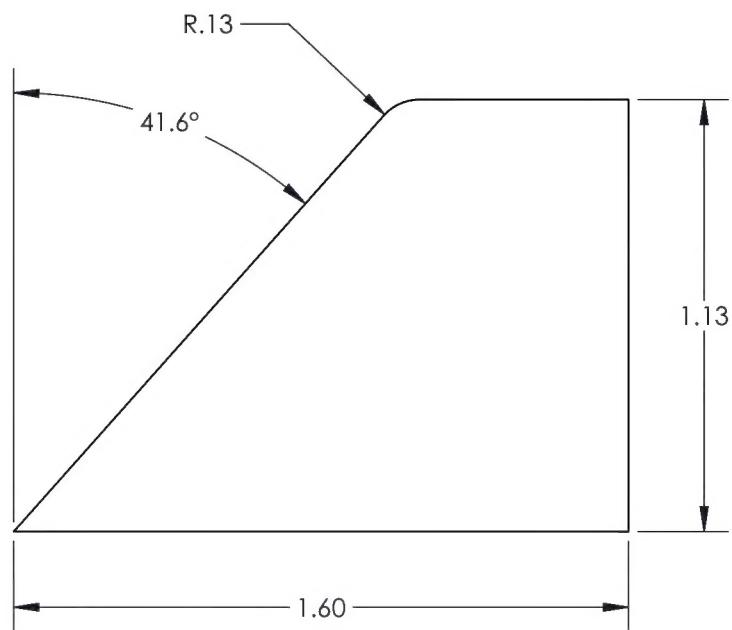
		TITLE	
		MRB SLING	
DWG NO.		RBEM621V1006101-11	
REV		2	
MAT'L		A36/1018/1020 HR	
HEAT		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH SEE -1		.XXX ± .010 FRACTIONS ± 1/8	
SPEC		.XX ± .03 ANGLES ± 1°	
DRAWN BY:		.X ± .1 SURFACES = 125 ✓	
CHECKED:		1. BREAK ALL SHARP EDGES	
OPPS APPR:		.015 x 45° OR .015R	
QA APPR:		2. DIMENSIONAL LIMITS APPLY	
APPROVED:		AFTER PLATING	
		3. INTERPRET DIM AND TOL PER	
		ASME Y14.5M-2009	
USED ON MODEL			
H175			
SCALE 2:1		DATE 3/3/2016	
		SHEET 8 OF 30	

(-11)

TOP TUBE TO TUBE BRACE

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REV	ECR	REVISIONS		
		DESCRIPTION	DATE	INITIAL
		APPROVED		



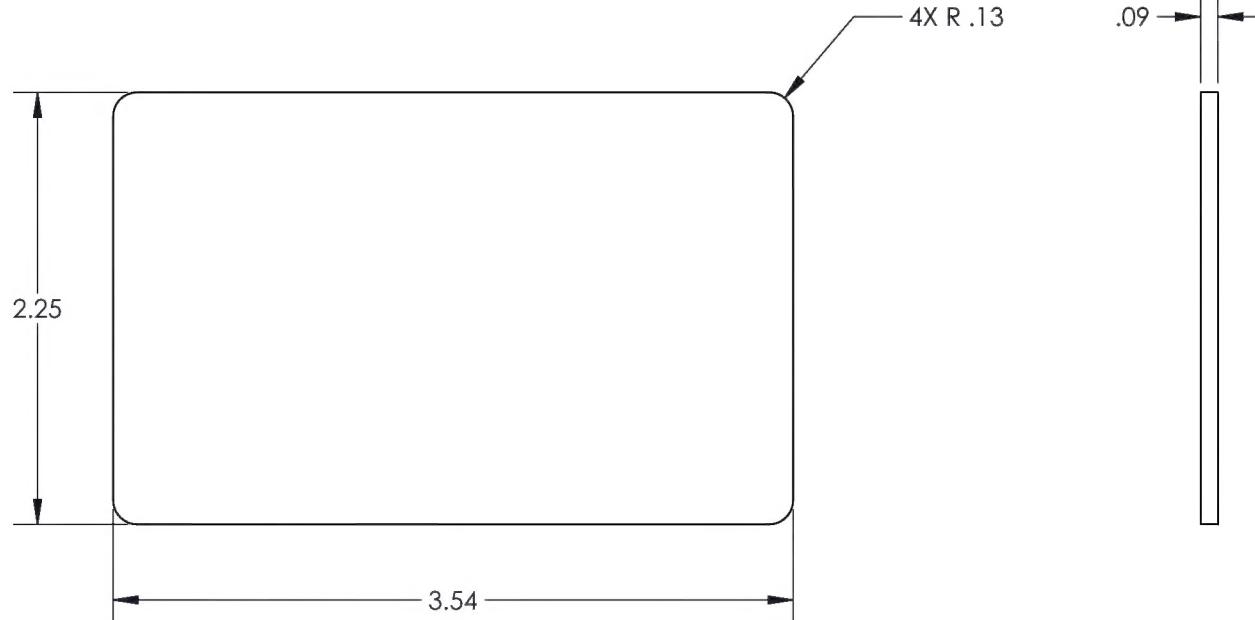
<b>DART</b> AEROSPACE																									
TITLE																									
MRB SLING																									
DWG NO. RBEM621V1006101-13																									
REV 2																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">MATERIAL A36/1018/1020 HR</td> <td style="width: 50%;">UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>HEAT</td> <td>.XXX ± .010 FRACTIONS ± 1/8</td> </tr> <tr> <td>TREAT</td> <td>.XX ± .03 ANGLES ± 1°</td> </tr> <tr> <td>FINISH SEE -1 &amp; -17</td> <td>X ± .1 SURFACES = 125 ✓</td> </tr> <tr> <td>SPEC</td> <td></td> </tr> <tr> <td>DRAWN BY: DUERFELDT</td> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> </tr> <tr> <td>CHECKED: CLOUGH</td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td>OPPS APPR: ANDERSON</td> <td>3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> <tr> <td>QA APPR: LINDSAY</td> <td>USED ON MODEL</td> </tr> <tr> <td>APPROVED: GILBERT</td> <td>H175</td> </tr> <tr> <td>SCALE 2:1</td> <td>DATE 3/3/2016</td> </tr> <tr> <td colspan="2">SHEET 9 OF 30</td> </tr> </table>		MATERIAL A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	HEAT	.XXX ± .010 FRACTIONS ± 1/8	TREAT	.XX ± .03 ANGLES ± 1°	FINISH SEE -1 & -17	X ± .1 SURFACES = 125 ✓	SPEC		DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING	OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	QA APPR: LINDSAY	USED ON MODEL	APPROVED: GILBERT	H175	SCALE 2:1	DATE 3/3/2016	SHEET 9 OF 30	
MATERIAL A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES																								
HEAT	.XXX ± .010 FRACTIONS ± 1/8																								
TREAT	.XX ± .03 ANGLES ± 1°																								
FINISH SEE -1 & -17	X ± .1 SURFACES = 125 ✓																								
SPEC																									
DRAWN BY: DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R																								
CHECKED: CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING																								
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009																								
QA APPR: LINDSAY	USED ON MODEL																								
APPROVED: GILBERT	H175																								
SCALE 2:1	DATE 3/3/2016																								
SHEET 9 OF 30																									

(-13)

CLAMP TO TUBE BRACE

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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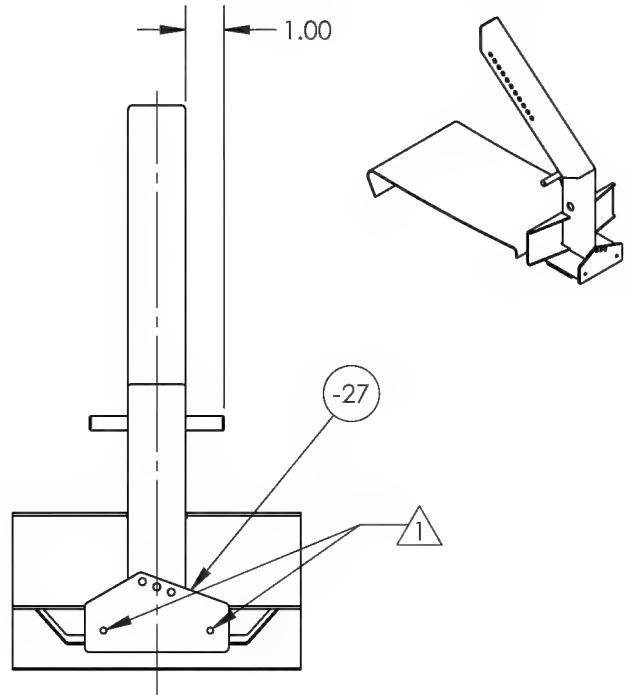
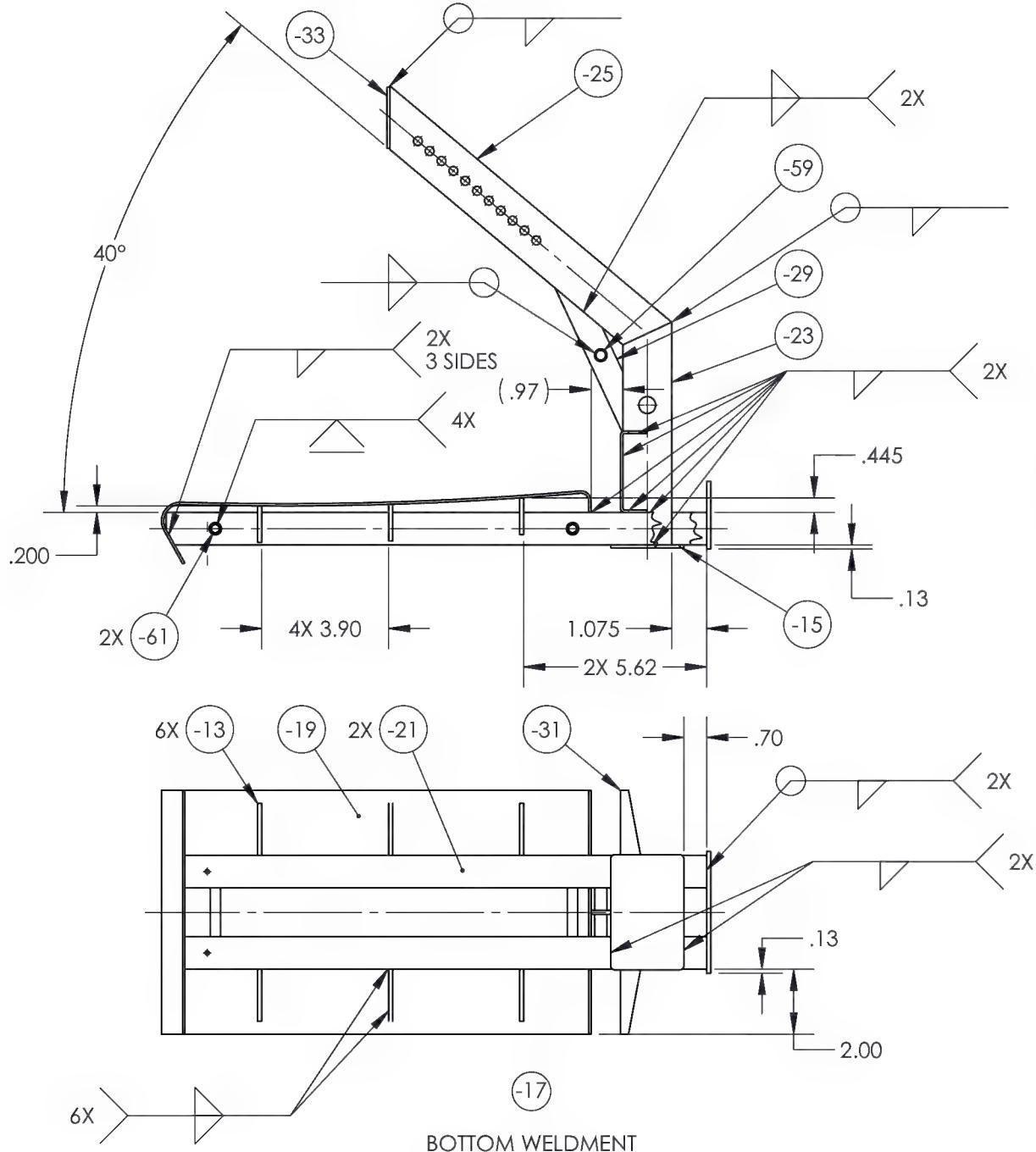
RECTANGLE TUBE BRACE

(-15)

	
TITLE	
DWG NO.	MRB SLING
RBEM621V1006101-15	
REV	2
MAT'L A36/1018/1020 HR	
HEAT	
TREAT	
FINISH SEE -1 & -17	
SPEC	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE	1:1
DATE	3/3/2016
USED ON MODEL	
H175	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	

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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2	16-0147		-17 ADDED DIM (.97). CH'D DIM WAS 2X 5.65 IS 5.62. ADDED HIDDEN LINES REMOVED NOTE.						9/13/2016			DPD			SM		



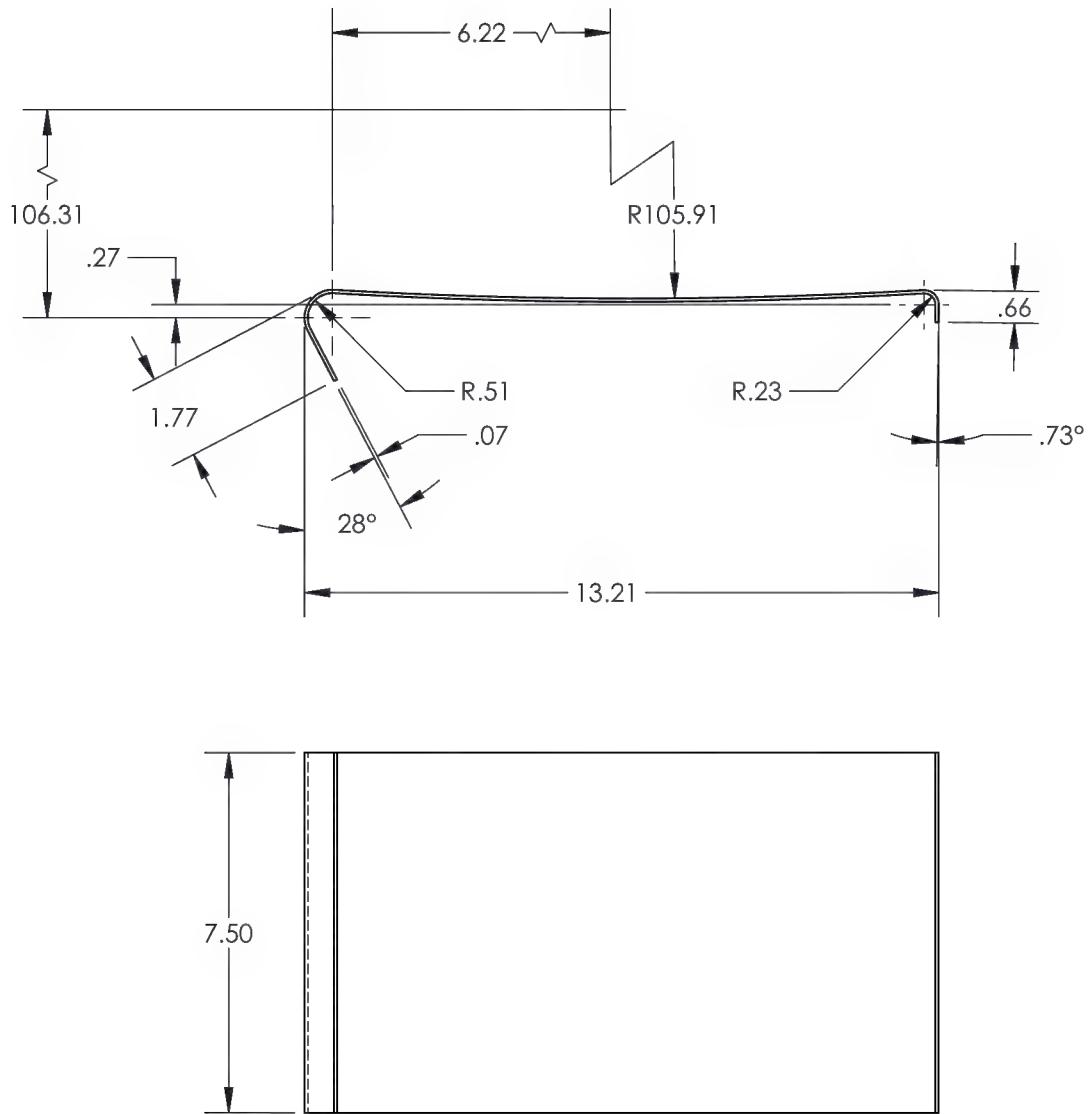
NOTE:

- 1 NO POWDER COAT IN THREADS.
2. HIDDEN LINES OMITTED FOR CLARITY.

	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-17
REV	2
MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	.X ± .1 SURFACES = 125
SPEC	FED #13538 ✓
DRAWN BY:	DUFERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:5
DATE	3/3/2016
SHEET	11 OF 30

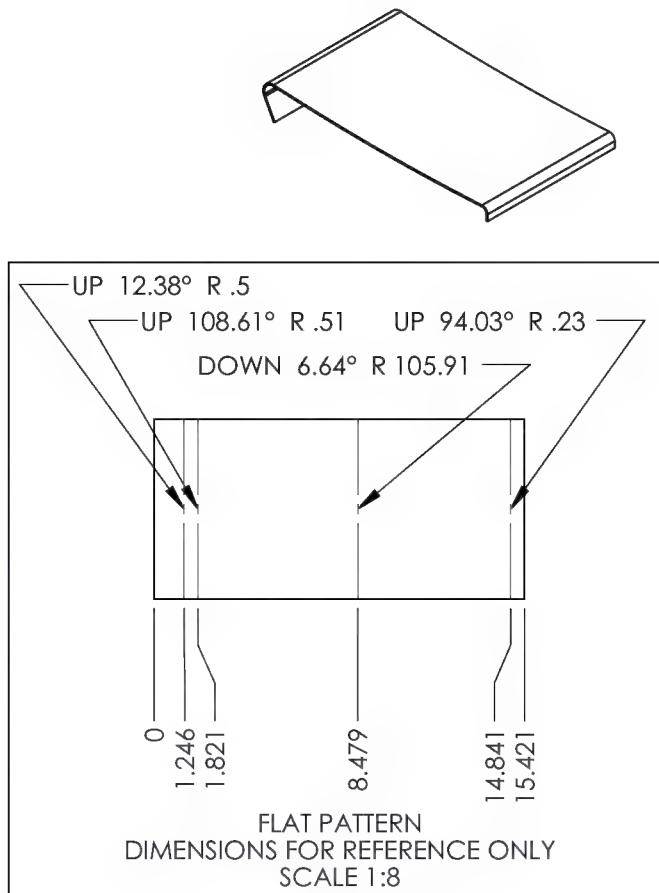
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REV	ECR	REVISIONS			DESCRIPTION	DATE	INITIAL	APPROVED
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(-19)

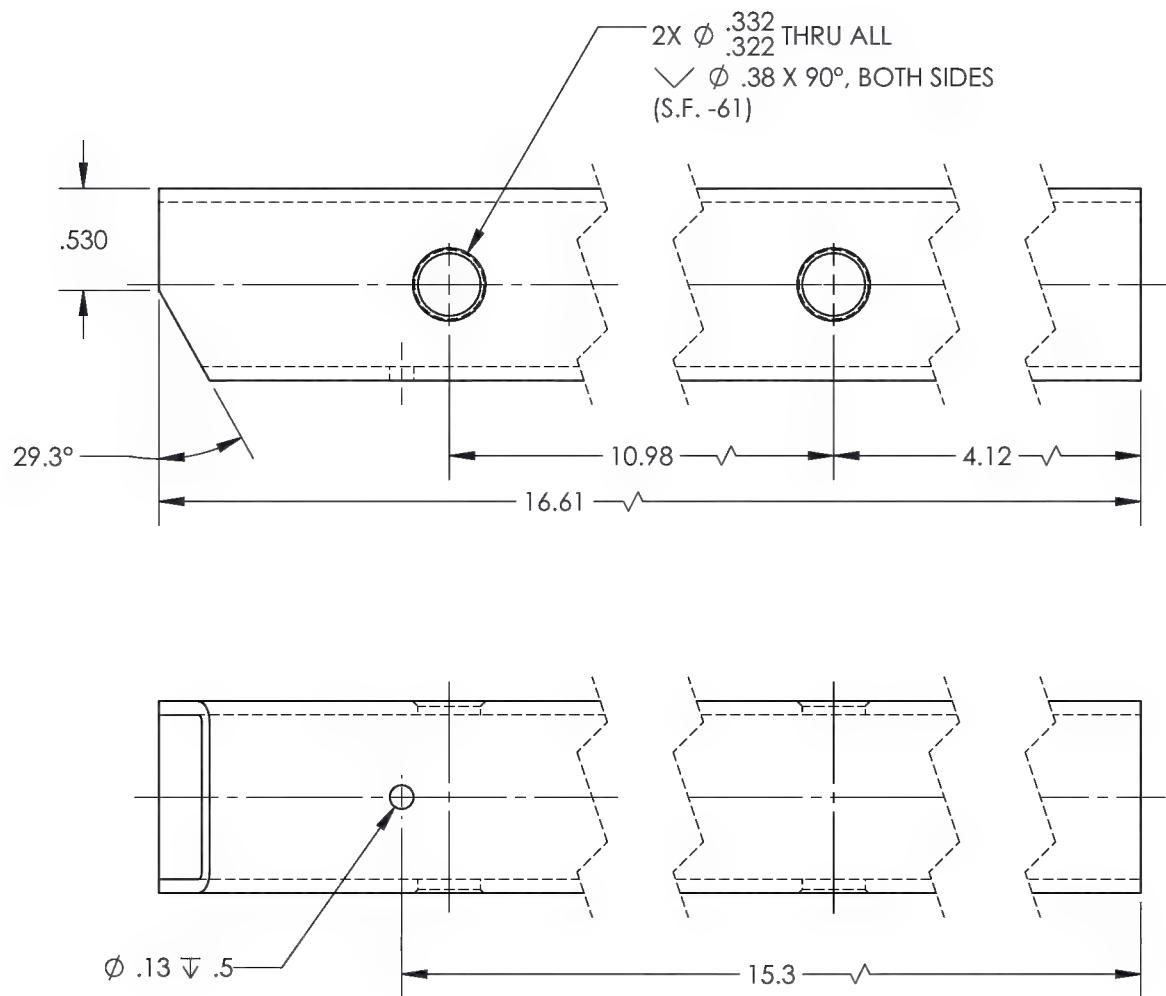
BOTTOM CLAMP



	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-19
REV	2
MAT'L	A36/1018/1020 HR
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -17	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:4
DATE	3/3/2016
SHEET	12 OF 30

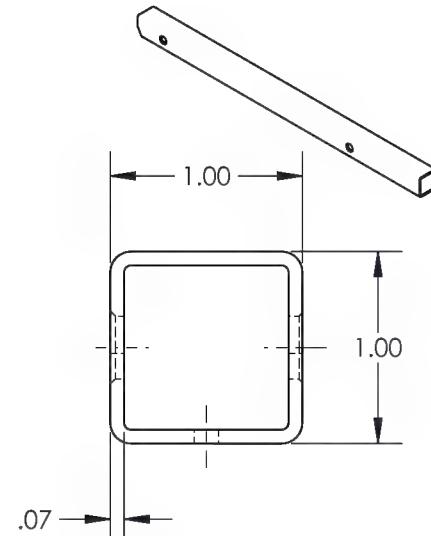
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REV			ECR			DESCRIPTION			DATE			INITIAL			APPROVED		
2	16-0147		-21 CH'D DIMS WAS 16.64 IS 16.61, WAS 15.4 IS 15.3.						9/13/2016			DPD			JAG		



(-21)

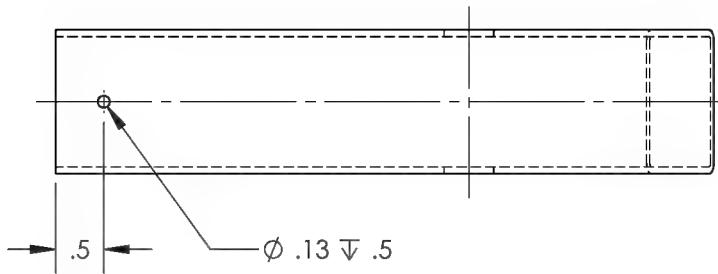
BOTTOM TUBE



DART AEROSPACE					
TITLE					
MRB SLING					
DWG NO. RBEM621V1006101-21					
REV 2					
MATERIAL STEEL TUBE					
HEAT					
TREAT					
FINISH SEE -17					
SPEC					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES					
.XXX ± .010 FRACTIONS ± 1/8					
.XX ± .03 ANGLES ± 1°					
.X ± .1 SURFACES = 125 ✓					
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R					
2. DIMENSIONAL LIMITS APPLY AFTER PLATING					
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009					
DRAWN BY: DUERFELDT					
CHECKED: CLOUGH					
OPPS APPR: ANDERSON					
QA APPR: LINDSAY					
APPROVED: GILBERT					
USED ON MODEL					
H175					
SCALE	1:1	DATE	3/3/2016	SHEET 13 OF 30	
DATE	3/3/2016				
SHEET 13 OF 30					

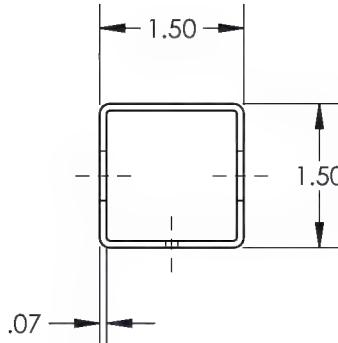
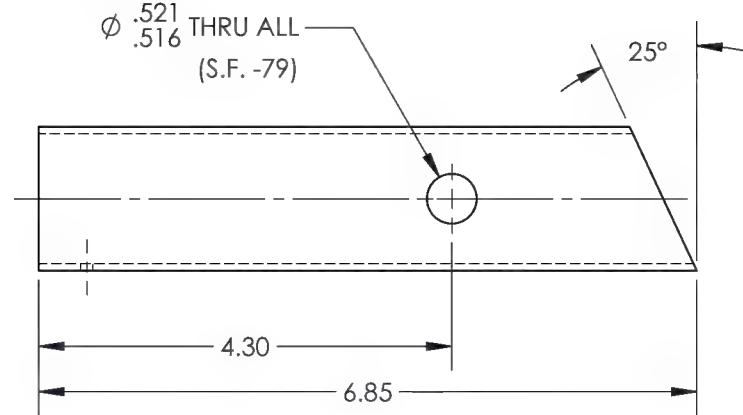
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			REVISIONS			
REV	ECR		DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0147		-23 CH'D DIM WAS $\varnothing$ .526-.531 THRU ALL S.F. -79 IS $\varnothing$ .516-.521 THRU ALL {S.F. -79}	9/13/2016	DPD	SM



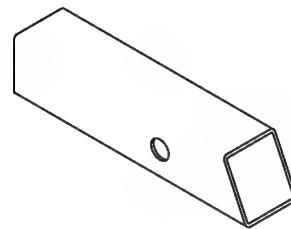
(-23)

BOTTOM UPRIGHT TUBE



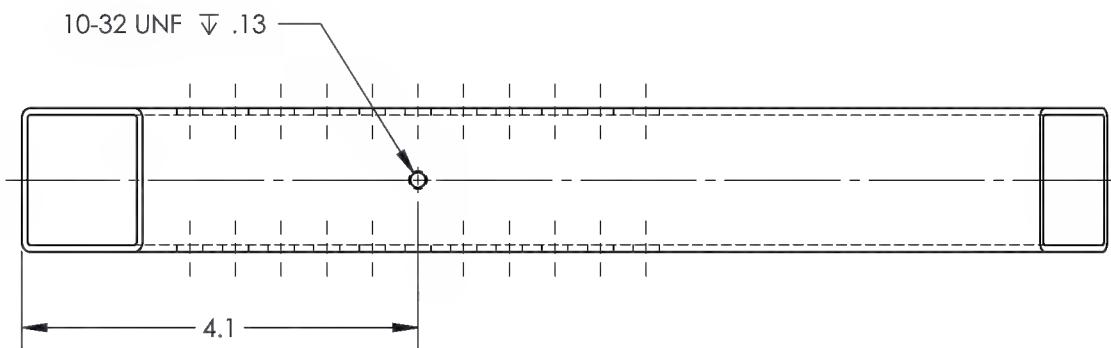
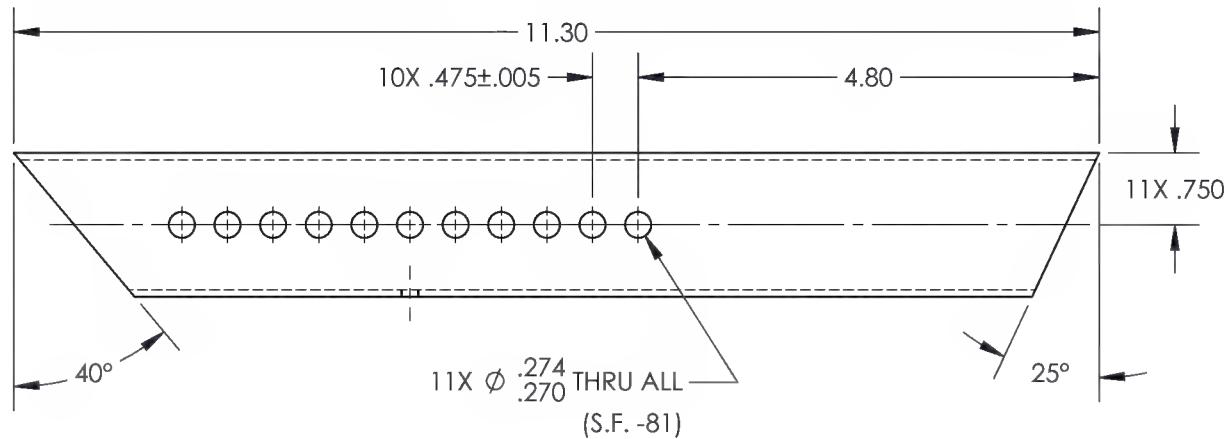
**DART**  
AEROSPACE

TITLE	
MRB SLING	
DWG NO.	RBEM621V1006101-23
REV	2
MAT'L	STEEL TUBE
HEAT	
TREAT	
FINISH	SEE -17
SPEC	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:2
DATE	3/3/2016
SHEET	14 OF 30



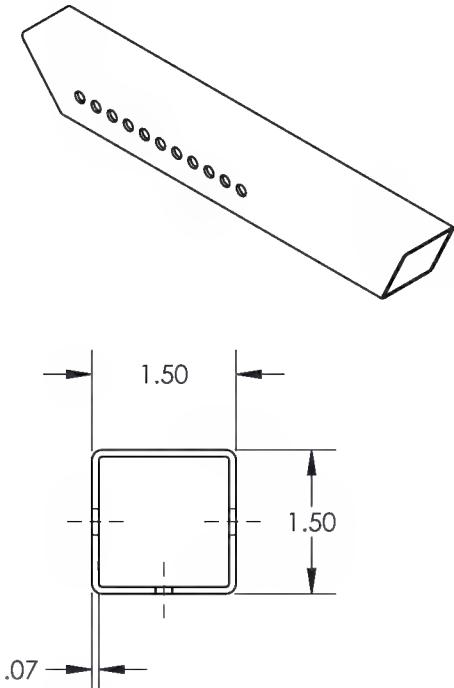
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(-25)

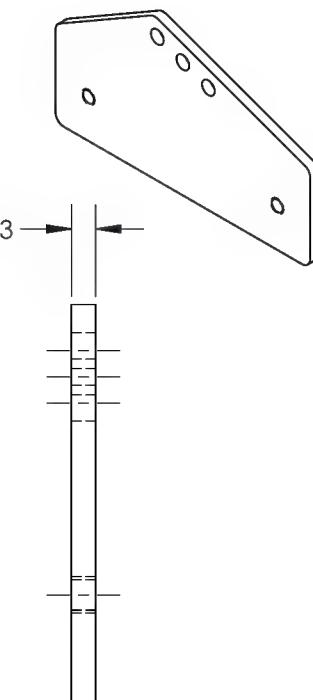
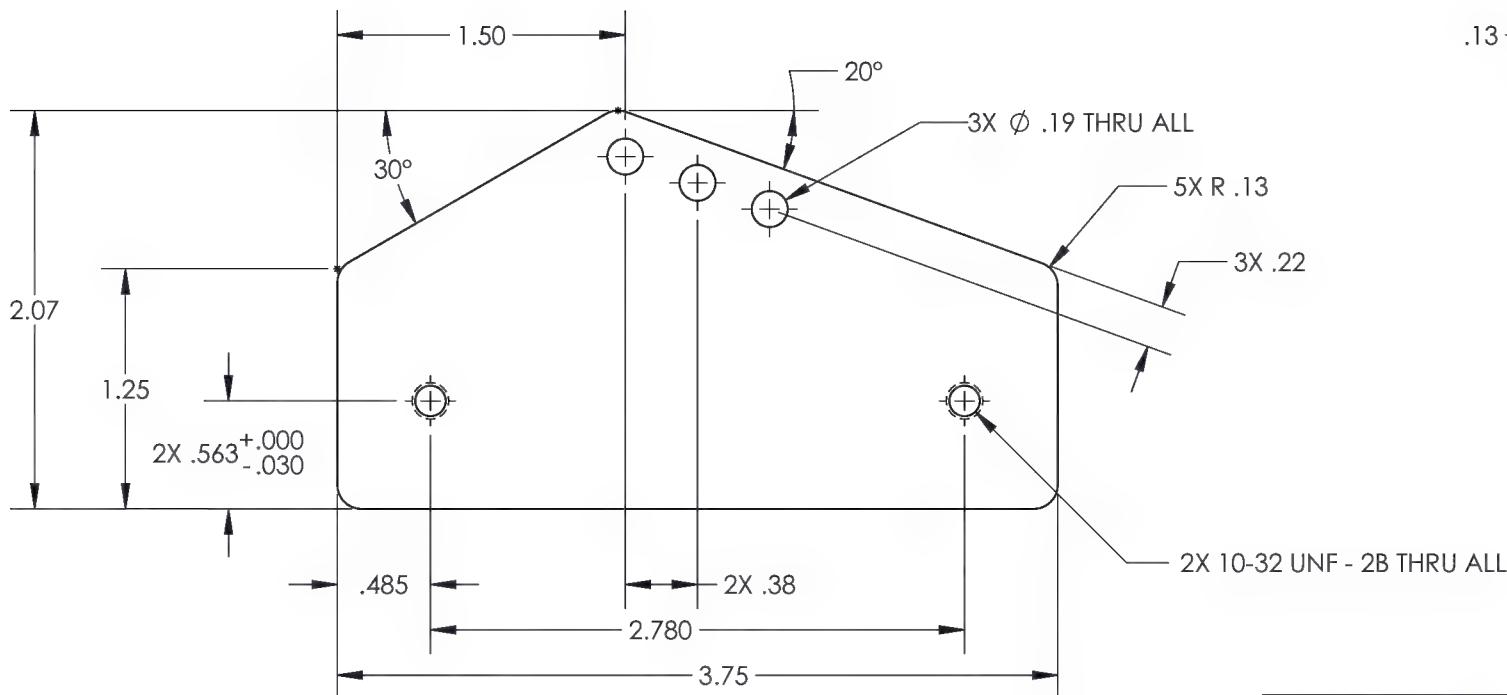
BOTTOM ANGLE TUBE



	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-25
REV	2
MAT'L	STEEL TUBE
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -17	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:2
DATE	3/3/2016
SHEET	15 OF 30

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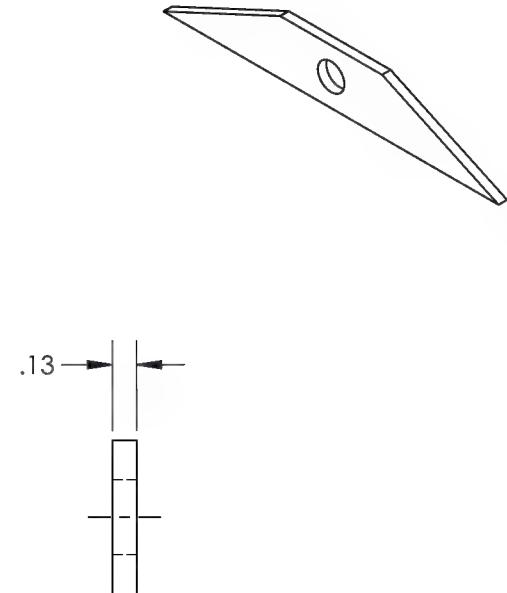
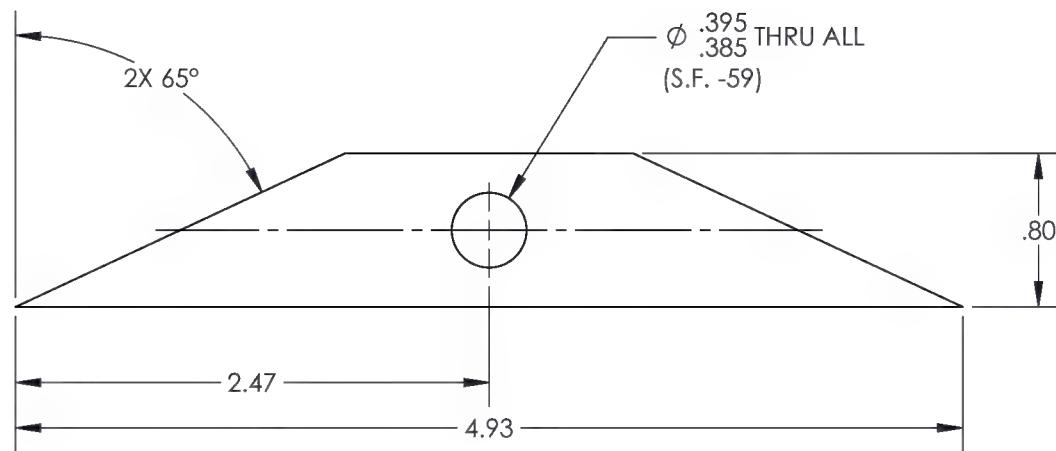
<b>DART</b> AEROSPACE			
TITLE			
MRB SLING			
DWG NO. RBEM621V1006101-27			
REV 2			
MAT'L A36/1018/1020 HR		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT		.XXX ± .010 FRACTIONS ± 1/8	
TREAT		.XX ± .03 ANGLES ± 1°	
FINISH SEE -17		.X ± .1 SURFACES = 125 ✓	
SPEC		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
CHECKED: CLOUGH		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
OPPS APPR: ANDERSON		USED ON MODEL	
QA APPR: LINDSAY		H175	
APPROVED: GILBERT			
SCALE 1:1		DATE 3/3/2016	
		SHEET 16 OF 30	

(-27)

BOTTOM SPRING ANCHOR PLATE

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		DESCRIPTION	DATE	INITIAL
				APPROVED



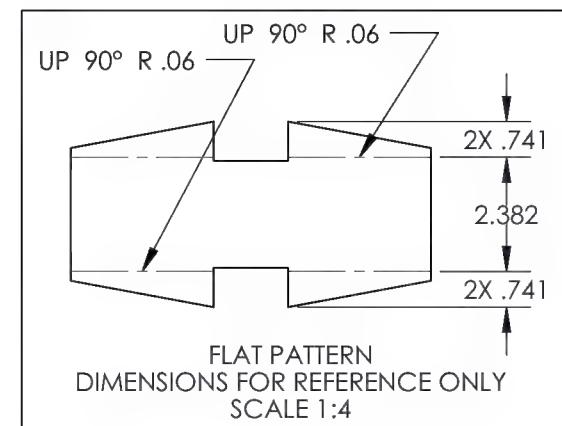
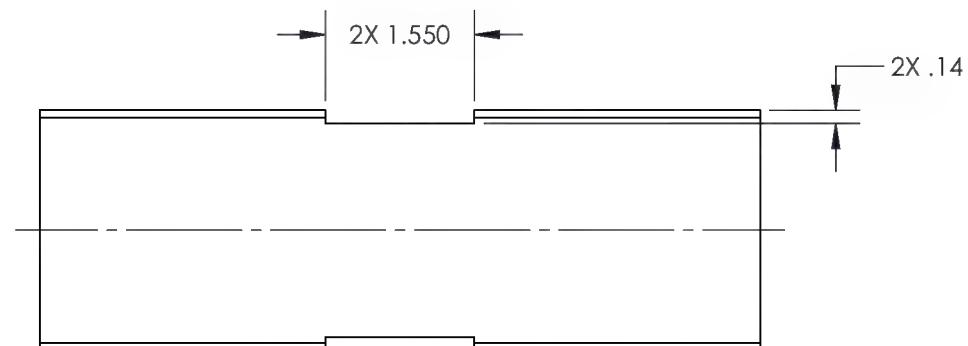
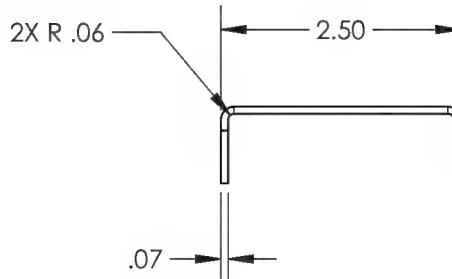
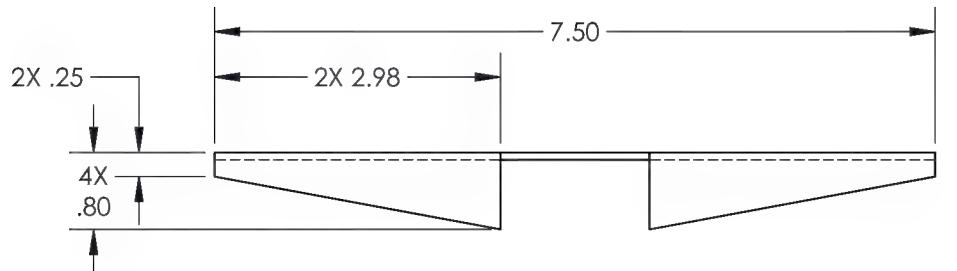
STOP GUSSET

(-29)

	
TITLE	
MRB SLING	
DWG NO.	RBEM621V1006101-29
REV	2
MATERIAL A36/1018/1020 HR	
HEAT TREAT	
FINISH SEE -17	
SPEC	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .010 FRACTIONS ± 1/8	
.XX ± .03 ANGLES ± 1°	
.X ± .1 SURFACES = 125 ✓	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL	
H175	
SCALE	1:1
DATE	3/3/2016
SHEET 17 OF 30	

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		DESCRIPTION	DATE	INITIAL
		APPROVED		



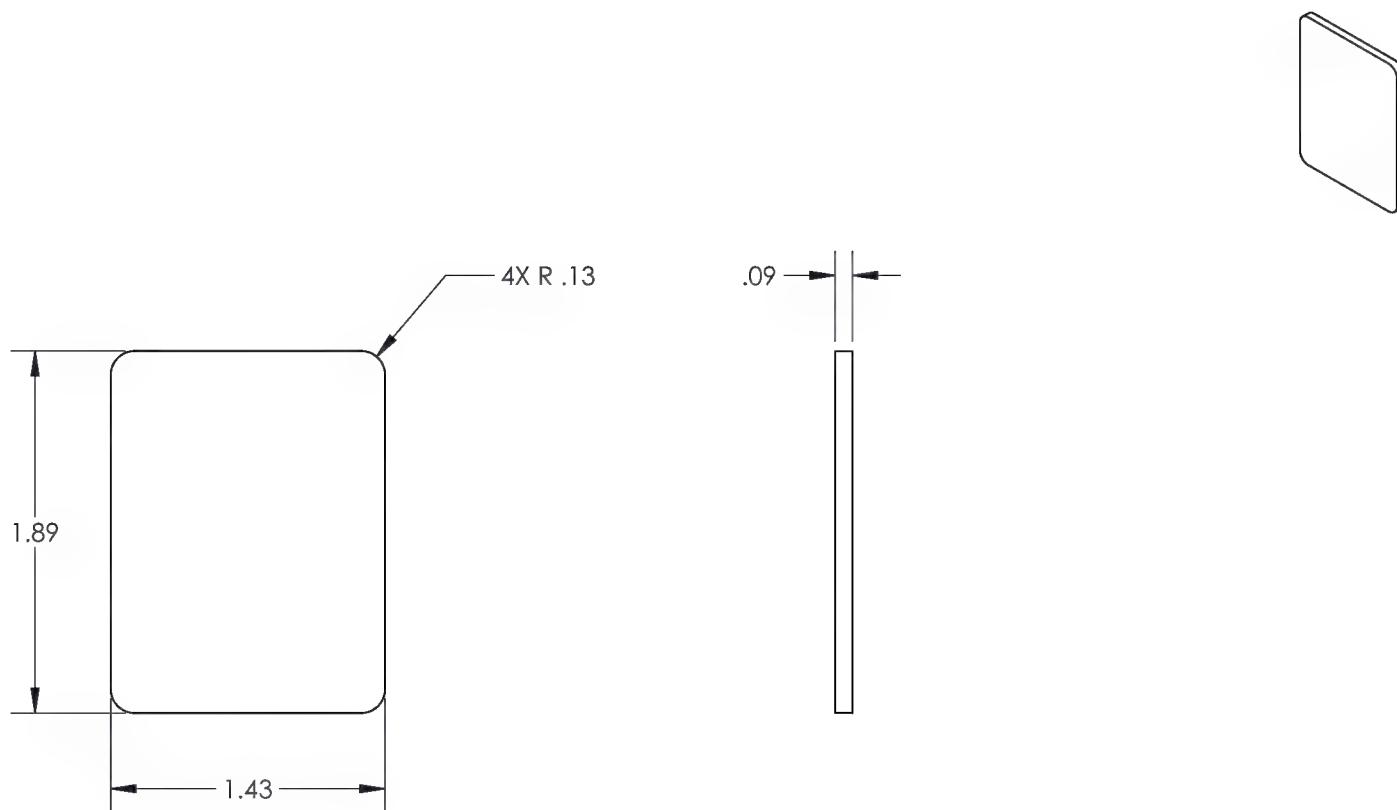
TITLE	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-31
REV	2
MAT'L	A36/1018/1020 HR
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -17	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	.X ± .1 SURFACES = 125
CHECKED:	1. BREAK ALL SHARP EDGES ✓
OPPS APPR:	.015 x 45° OR .015R
QA APPR:	2. DIMENSIONAL LIMITS APPLY
APPROVED:	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE	USED ON MODEL
DATE	H175
3/3/2016	
SHEET	18 OF 30

(-31)

BOTTOM UPRIGHT SUPPORT

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				DESCRIPTION		DATE
						INITIAL
				APPROVED		



LARGE TUBE CAP

(-33)

<b>DART</b> AEROSPACE	
TITLE	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-33
REV	2
MAT'L A36/1018/1020 HR	
HEAT	
TREAT	
FINISH SEE -17	
SPEC	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:1
DATE	3/3/2016
SHEET 19 OF 30	

**DART**  
AEROSPACE

MRB SLING

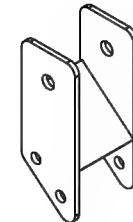
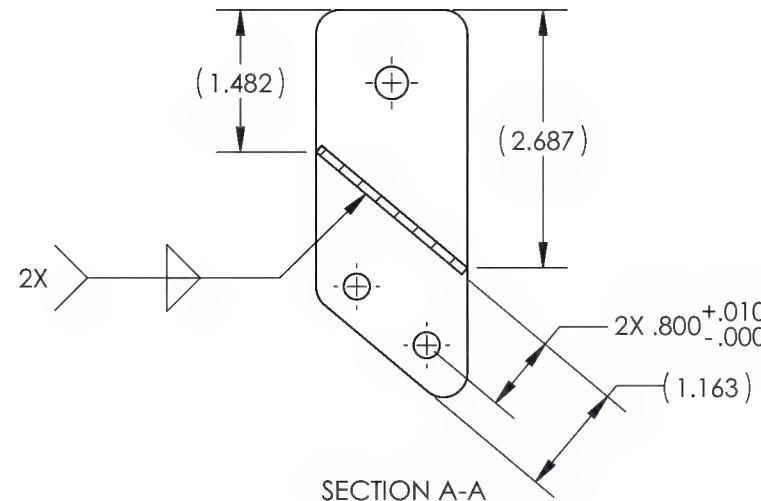
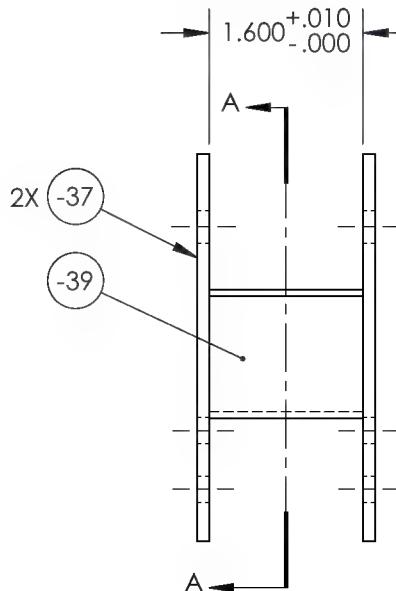
RBEM621V1006101-33

2

UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
.XXX ± .010	FRACTIONS ± 1/8
.XX ± .03	ANGLES ± 1°
X ± .1	SURFACES = 125
1. BREAK ALL SHARP EDGES	.015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY	AFTER PLATING
3. INTERPRET DIM AND TOL PER	ASME Y14.5M-2009
QA APPR:	LINDSAY
APPROVED:	GILBERT
SCALE	1:1
DATE	3/3/2016
SHEET 19 OF 30	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0147	-35 CH'D DIM WAS .800 +.010-.000 IS 2X .800 +.010-.000.	9/13/2016	DPD	SM



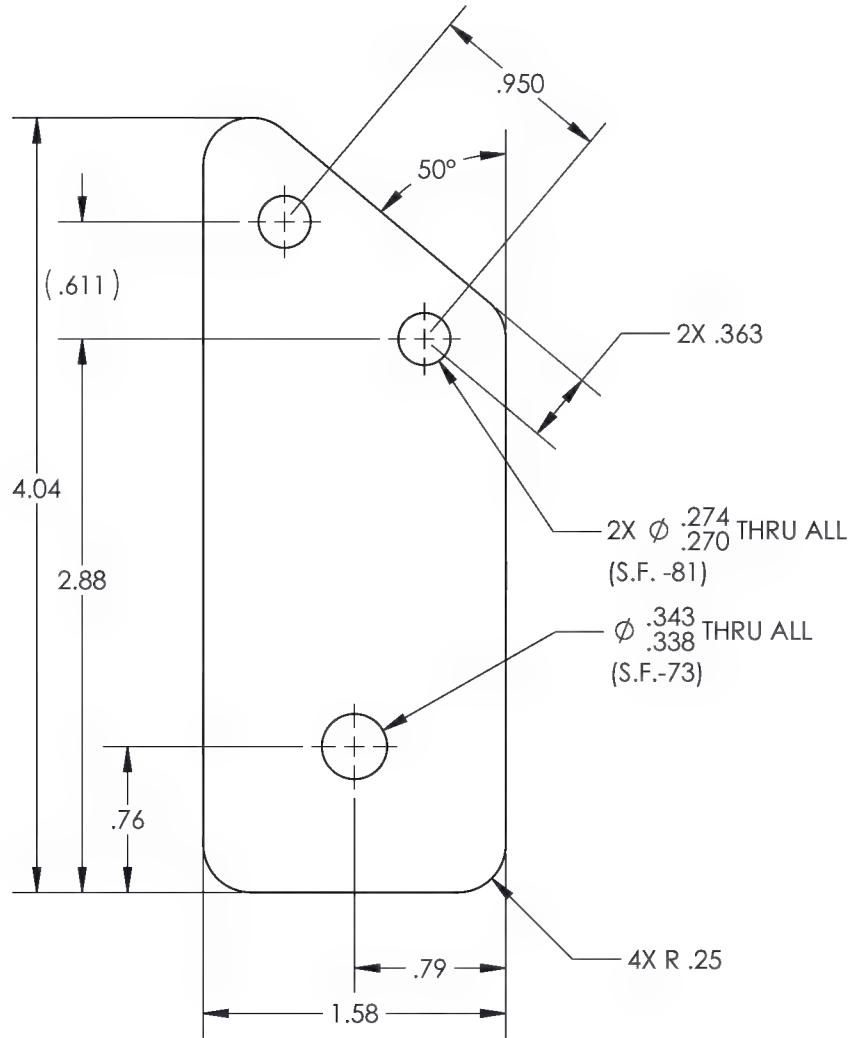
(-35)

LIFTING BLOCK WELDMENT

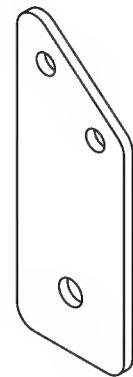
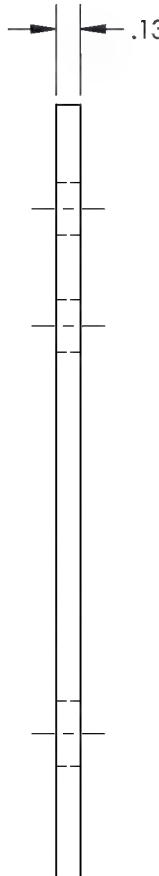
	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-35
REV	2
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	.X ± .1 SURFACES = 125 ✓
SPEC	1. BREAK ALL SHARP EDGES FED #13538 .015 x 45° OR .015R
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:2
DATE	3/3/2016
SHEET	20 OF 30

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			REVISIONS			
REV	ECR		DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0147	-37	CH'D DIMS WAS .57 IS .76, WAS Ø.275-.280 THRU ALL S.F. -73 IS Ø.338-.343 THRU ALL (S.F. -73).	9/13/2016	DPD	SM



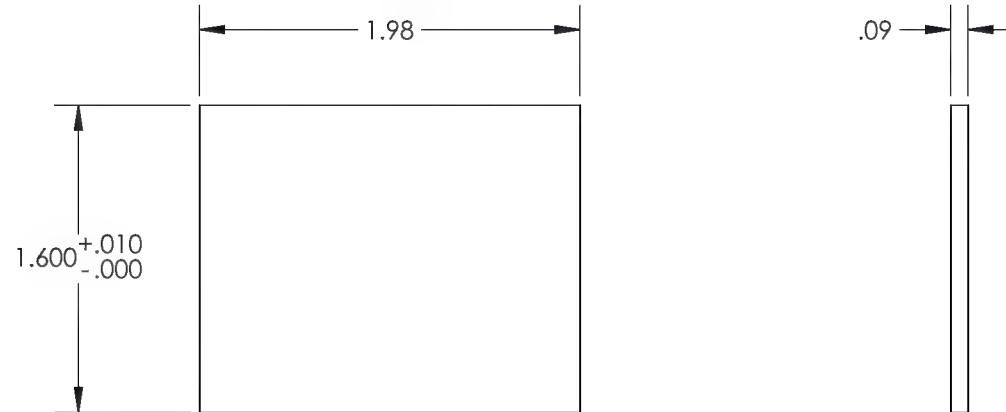
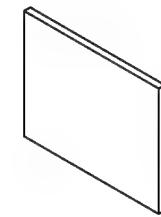
LIFTING BLOCK PLATE



DART AEROSPACE	
TITLE	
MRB SLING	
DWG NO. RBEM621V1006101-37	
REV 2	
MAT'L 1018/1020 CR	
UNLESS OTHERWISE SPECIFIED	
DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH SEE -35	.X ± .1 SURFACES = 125 ✓
SPEC	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
H175	
SCALE 1:1	DATE 3/3/2016
SHEET 21 OF 30	

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REV		ECR		DESCRIPTION			DATE	INITIAL	APPROVED
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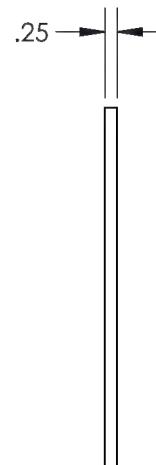
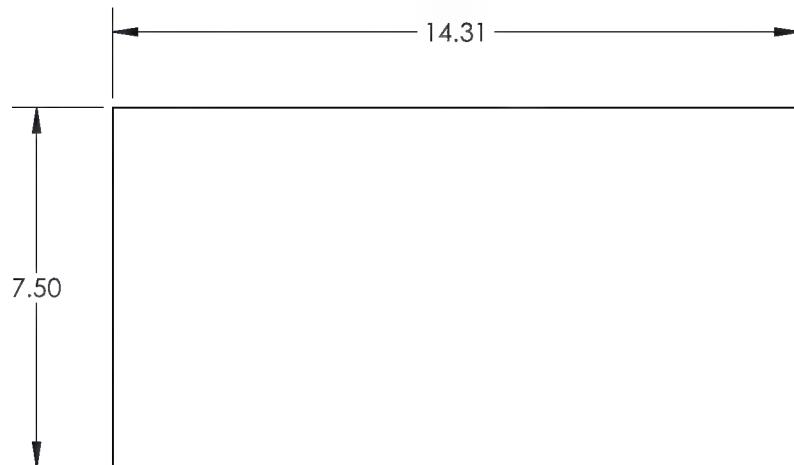
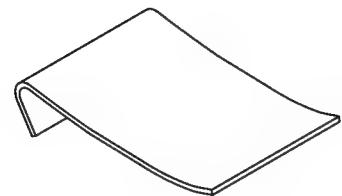
DART AEROSPACE	
TITLE	
MRB SLING	
DWG NO. RBEM621V1006101-39	
REV 2	
MATERIAL 1018/1020 CR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT .XXX ± .010 FRACTIONS ± 1/8	
TREAT .XX ± .03 ANGLES ± 1°	
FINISH SEE -35 .X ± .1 SURFACES = 125 ✓	
SPEC	
DRAWN BY: DUERFELDT	
CHECKED: CLOUGH	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL	
H175	
SCALE 1:1	DATE 3/3/2016
SHEET 22 OF 30	

(-39)

LIFTING BLOCK SPACER

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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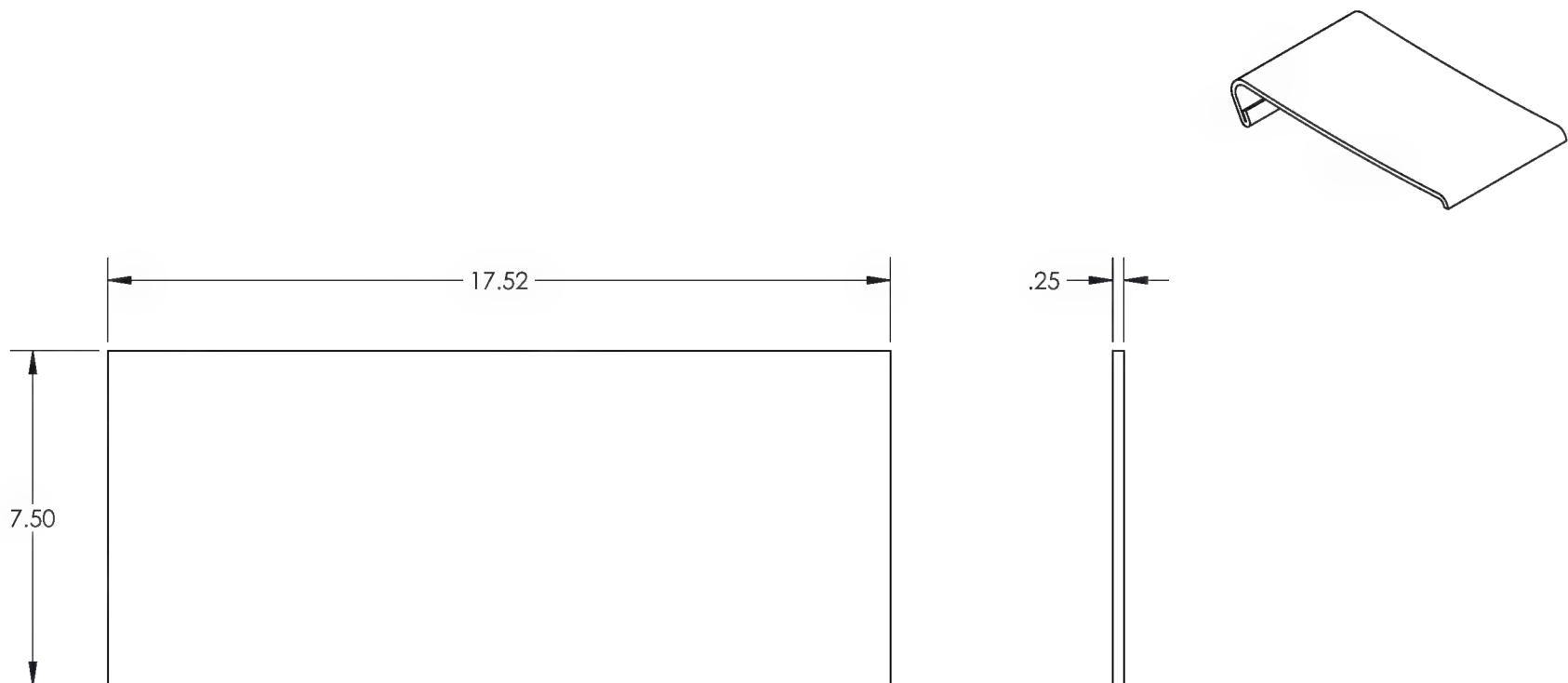
(-41)

TOP CLAMP PAD

	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-41
REV	2
MAT'L	NEOPRENE/EPDM/SBR FOAM
HEAT	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .010 FRACTIONS ± 1/8
SPEC	.XX ± .03 ANGLES ± 1°
DRAWN BY:	.X ± .1 SURFACES = 125 ✓
CHECKED:	1. BREAK ALL SHARP EDGES
OPPS APPR:	.015 x 45° OR .015R
QA APPR:	2. DIMENSIONAL LIMITS APPLY
APPROVED:	AFTER PLATING
	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
SCALE	H175
DATE	1:4
	3/3/2016
	SHEET 23 OF 30

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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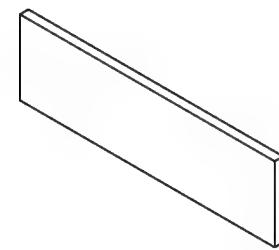
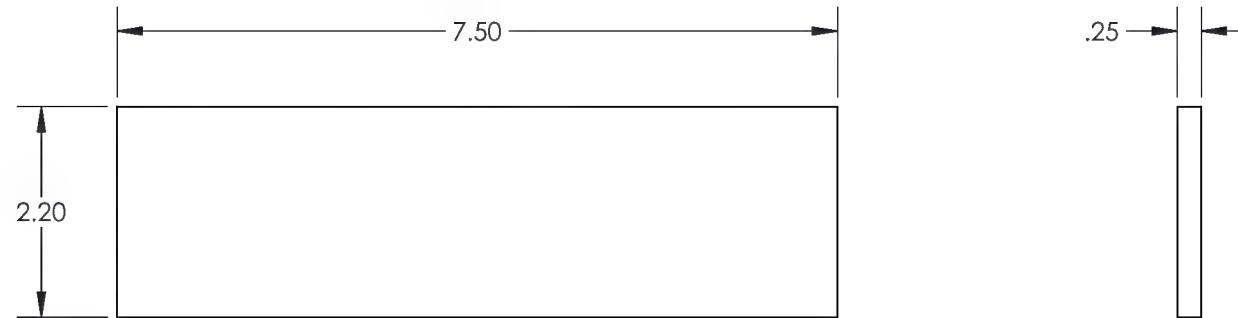
BOTTOM CLAMP PAD

-43

	
TITLE	
MAT'L	NEOPRENE/EPDM/SBR FOAM
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	X ± .1 SURFACES = 125
SPEC	UNLESS OTHERWISE SPECIFIED
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
SCALE	1:4
DATE	3/3/2016
SHEET 24 OF 30	

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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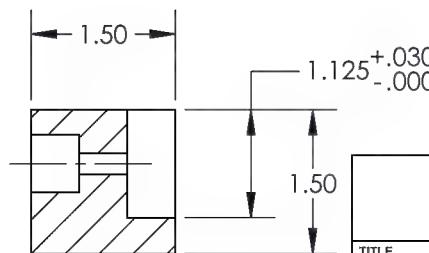
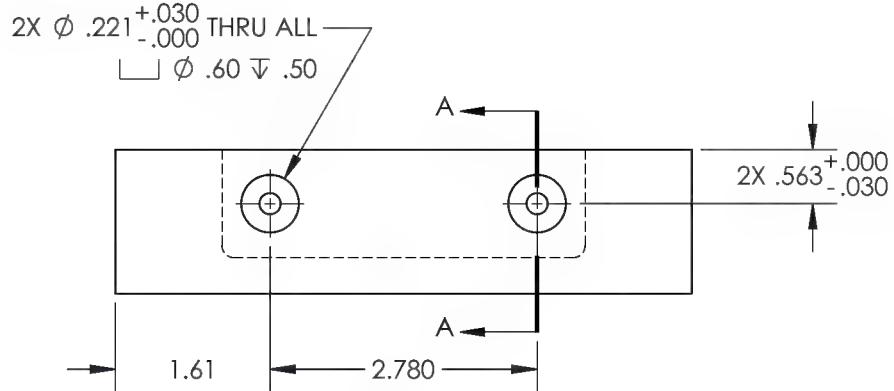
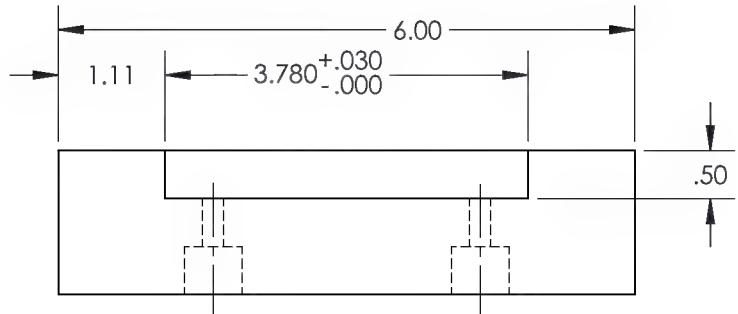
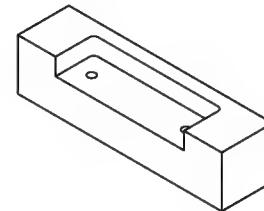
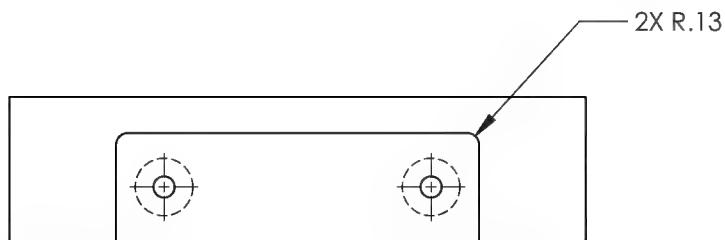
BACK FOAM PAD

(-45)

<b>DART</b> AEROSPACE	
<b>TITLE</b>	
<b>MRB SLING</b>	
<b>DWG NO.</b>	<b>RBEM621V1006101-45</b>
<b>REV</b>	<b>2</b>
<b>MAT'L</b>	<b>NEOPRENE/EPDM/SBR FOAM</b>
<b>HEAT</b>	<b>UNLESS OTHERWISE SPECIFIED</b>
<b>TREAT</b>	<b>DIMENSIONS ARE IN INCHES</b>
<b>FINISH</b>	<b>.XXX ± .010 FRACTIONS ± 1/8</b>
<b>SPEC</b>	<b>.XX ± .03 ANGLES ± 1°</b>
<b>DRAWN BY:</b>	<b>DUERFELDT</b>
<b>CHECKED:</b>	<b>CLOUGH</b>
<b>OPPS APPR:</b>	<b>ANDERSON</b>
<b>QA APPR:</b>	<b>LINDSAY</b>
<b>APPROVED:</b>	<b>GILBERT</b>
<b>USED ON MODEL</b>	<b>H175</b>
<b>SCALE</b>	<b>1:2</b>
<b>DATE</b>	<b>3/3/2016</b>
<b>SHEET 25 OF 30</b>	

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REV			ECR			DESCRIPTION			REVISIONS		
2	16-0147	-47 ADDED DIM 2X R.13.									
									DATE 9/13/2016 INITIAL DPD APPROVED SM		



SECTION A-A

**DART**  
AEROSPACE

TITLE

MRB SLING

DWG NO. RBEM621V1006101-47

REV 2

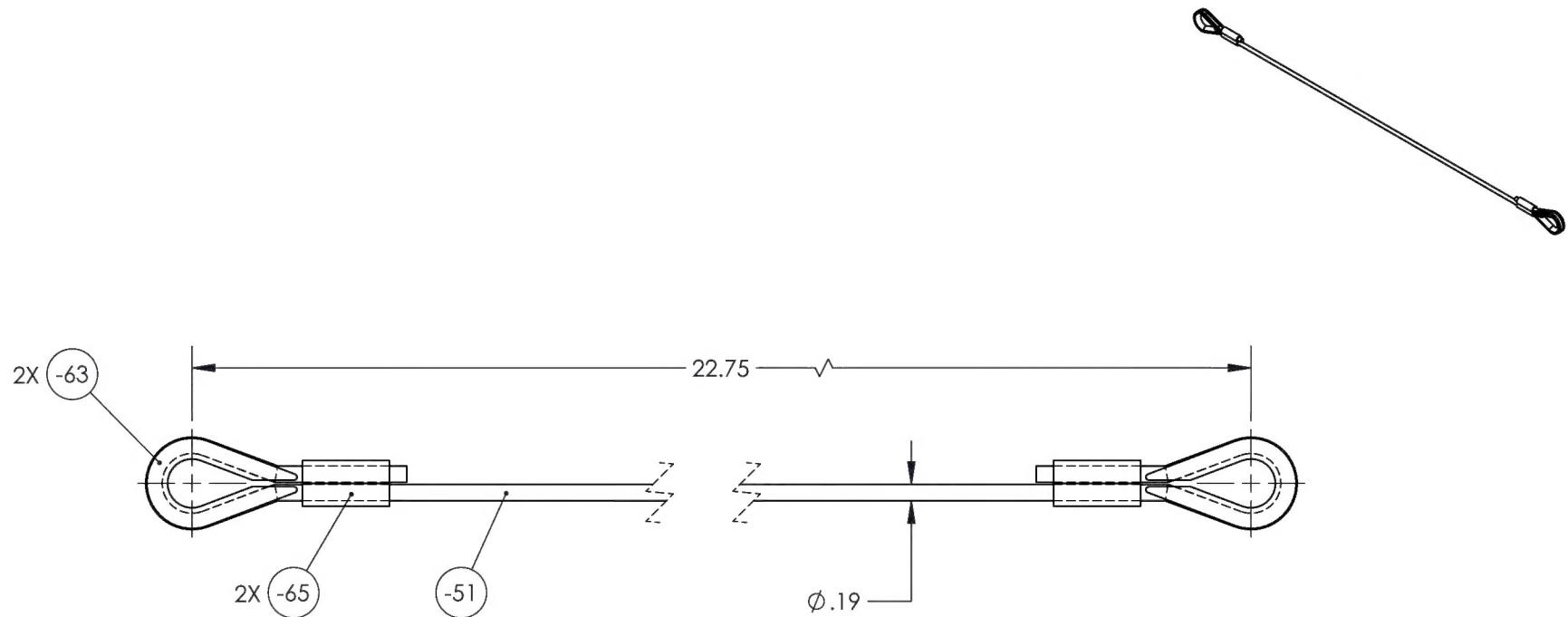
MAT'L	URETHANE, 60A	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .010	FRACTIONS ± 1/8
TREAT	.XX ± .03	ANGLES ± 1°
FINISH	X ± .1	SURFACES = 125
SPEC		✓
DRAWN BY:	DUERFELDT	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED:	CLOUGH	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR:	ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR:	LINDSAY	USED ON MODEL
APPROVED:	GILBERT	H175
SCALE	1:2	DATE 3/3/2016
		SHEET 26 OF 30

(-47)

REAR BUMPER

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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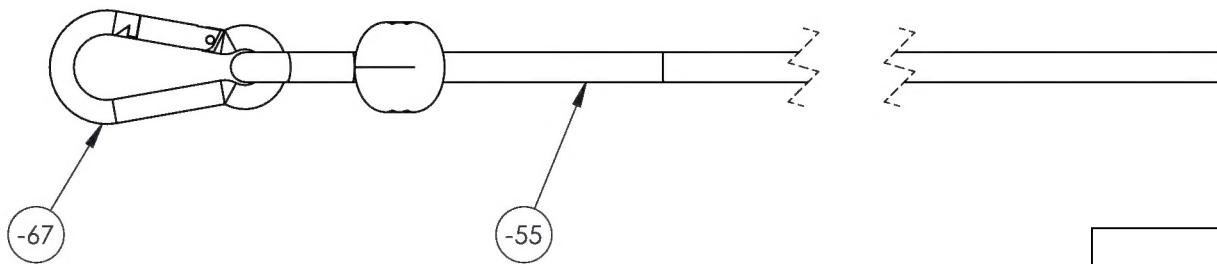
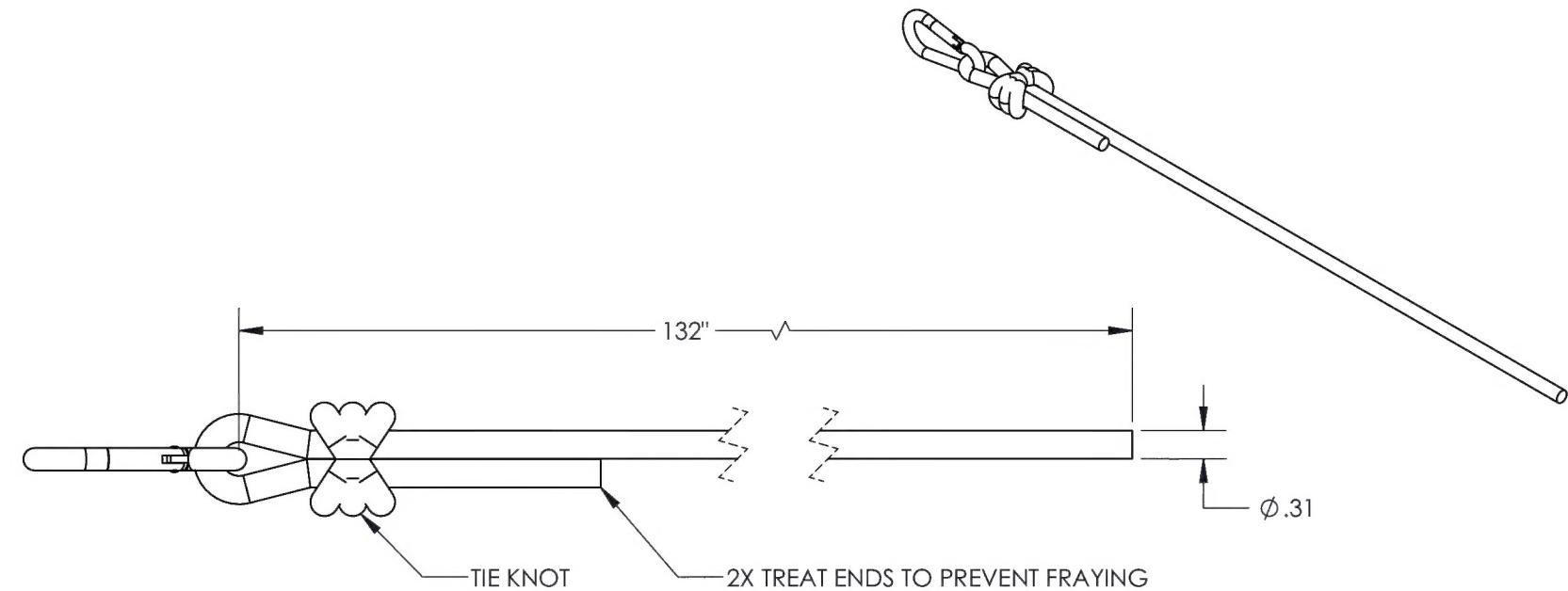
LIFTING CABLE ASSEMBLY

(-49)

	
TITLE	
DWG NO.	MRB SLING
RBEM621V1006101-49	
REV	2
MAT'L	UNLESS OTHERWISE SPECIFIED
HEAT	DIMENSIONS ARE IN INCHES
TREAT	.XXX ± .010 FRACTIONS ± 1/8
FINISH	.XX ± .03 ANGLES ± 1°
SPEC	X ± .1 SURFACES = 125 ✓
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:2
DATE	3/3/2016
SHEET	27 OF 30

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REV	ECR	REVISIONS	DESCRIPTION	DATE	INITIAL	APPROVED
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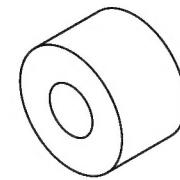
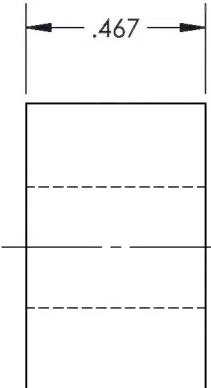
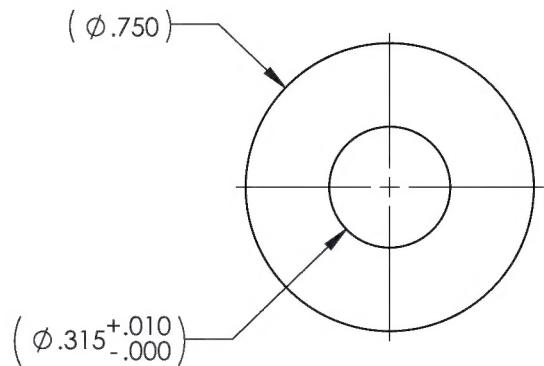
ROPE & CARABINER ASSEMBLY

(-53)

<b>DART</b> AEROSPACE	
TITLE	MRB SLING
DWG NO.	RBEM621V1006101-53
REV	2
MAT'L	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT	.XXX ± .010 FRACTIONS ± 1/8
TREAT	.XX ± .03 ANGLES ± 1°
FINISH	X ± .1 SURFACES = 125
SPEC	✓
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	H175
SCALE	1:2
DATE	3/3/2016
SHEET	28 OF 30

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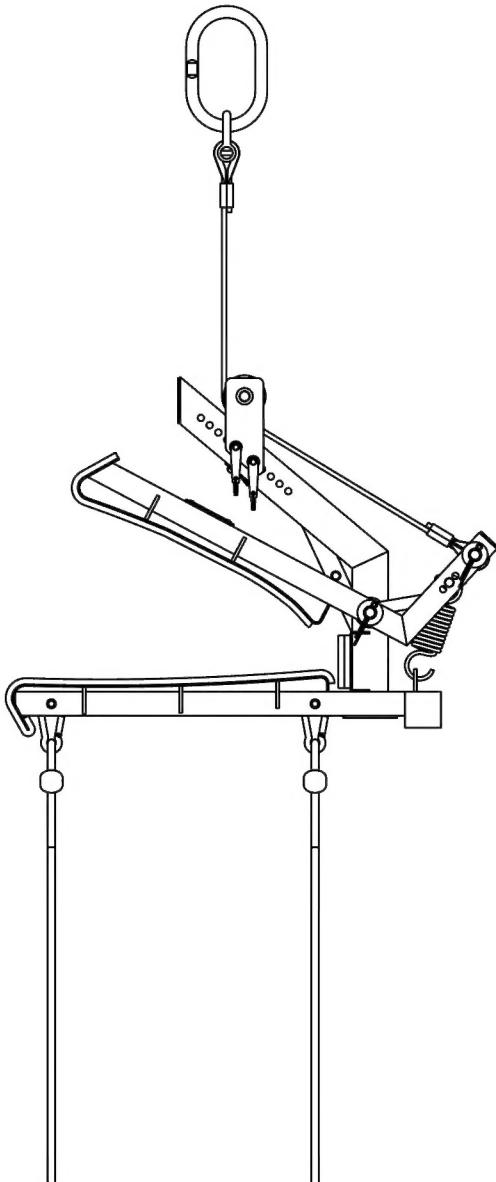
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0147	-57 CH'D DIMS WAS $(\phi .625)$ IS $(\phi .750)$ , WAS $(\phi .252 +.010-.000)$ IS $(\phi .315 +.010-.000)$ , WAS .537 IS .467.	9/13/2016	DPD	SM



-57

SPACER

DART AEROSPACE	
TITLE	
MRB SLING	
DWG NO.	RBEM621V1006101-57
REV	2
MATERIAL S.S.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT	.XXX ± .005 FRACTIONS ± 1/8
TREAT	.XX ± .01 ANGLES ± 5°
FINISH	X ± .1 SURFACES = 125
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
DRAWN BY:	DUERFELDT
CHECKED:	CLOUGH
OPPS APPR:	ANDERSON
QA APPR:	LINDSAY
APPROVED:	GILBERT
USED ON MODEL	
H175	
SCALE	2:1
DATE	3/3/2016
SHEET 29 OF 30	



## FIRST ARTICLE WEIGHT TEST

INSPECTION & TESTING PROCEDURES FOR THE RBEM621V1006101, MRB SLING.

THIS ASSEMBLY IS DESIGNED TO LIFT A MAIN ROTOR BLADE. THIS ASSEMBLY SHOULD BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

## FIRST ARTICLE WEIGHT TEST

1. AFTER INSPECTION, PLACE 330 LBS. IN MRB SLING. LIFT MRB SLING USING AN APPROPRIATE LIFTING DEVICE, FOR AT LEAST 5 MINUTES, CONTINUALLY CHECKING FOR CRACKS, DEFLECTION, OR DISTORTION.
3. REMOVE WEIGHT AND RE-INSPECT TOOL, CHECKING FOR STRESS CRACKS, BENDING, OR DISTORTIONS.

INSPECTOR: \_\_\_\_\_

TESTER: \_\_\_\_\_

S.N.: \_\_\_\_\_

DATE: \_\_\_\_\_

**DART**  
AEROSPACE

190 S. Danebo Ave., Eugene, OR. 97402  
1-800-556-4166

e-mail: [sales@dartaero.com](mailto:sales@dartaero.com)  
[dartaerospace.com](http://dartaerospace.com)

TITLE

MRB SLING

DWG NO.

RBEM621V1006101

REV  
2

CUSTOMER 1 OF 1

SCALE

1:8

DATE 3/3/2016

SHEET 30 OF 30